

Item No.	Description	Unit	Qty	Unit Rate (Birr)	Amount (Birr)
1. FENCE WORK					
A. SUBSTRUCTURE					
1. EXCAVATION AND EARTH WORK					
1.01	Trench excavation in ordinary soil for masonry foundation to not more than to depth of 1000 mm from Natural level.	m3	37.40		
1.02	Fill around masonry foudation with imported selected materials from out side well rolled and compacted in layers not exceeding 200 mm thick.	m3	25.50		
1.03	Cart away surplus excavated materials and deposit to a distance 10Km.	m3	37.40		
Sub Total of A-1.....					
2. CONCRETE WORK					
2.01	50mm lean concrete quality C-7 Charaterstics Strength of 10N/mm2				
	a) Below Masonary	m2	18.15		
2.01	Reinforced concrete in class C-25 with minimum cement content of 378 kg/m ³ of drum mix filled into formwork and vibrated around rod reinforcement (steel and formwork shall be measured separately)				
	a) To Grade Beam	m3	3.63		
	b) To Colomns	m3	1.35		
2.02	Formwork shall be timbered or steel or a combination of two, sufficient to contain the wet concrete without leakage. Enough to support temporary loading and pressure from placing Compaction or vibration without displacement or appreciable deflection.				
	a) Grade beam	m2	16.50		
	b) To Colomns	m2	18.00		
2.03	Mild steel bar reinforcement according to structural drawings. Reinforcement shall be free from dirt, oil, grease, paint, readers paint, etc and any other substances which may affect the reinforcement and concrete bond (price include cutting bending and placing in position).				
	a) In Grade beam				
	Dia.8 deformed bar	kg	772.20		
	Dia.12 deformed bar	kg	1,990.66		
	b) In Colomns				
	Dia.8 deformed bar	kg	34.32		
	Dia.12 deformed bar	kg	70.40		
Sub Total of A-2.....					

Item No.	Description	Unit	Qty	Unit Rate (Birr)	Amount (Birr)
3. MASONRY WORK					
3.01	For the internal fence				
a	500 mm thick basaltic or equivalent type stone masonry bedded in cement mortar(1:3) mix below ground surface. price shall include cement mortar bed.	m3	9.08		
3.02	For the stairs				
a	500 mm thick basaltic or equivalent type stone masonry bedded in cement mortar(1:3) mix below natural ground level for the stair bed	m3	2.57		
b	500 mm thick basaltic or equivalent type stone masonry bedded in cement mortar(1:3) mix above natural ground level for the stair	m3	5.15		
Sub Total of A-3.....					
Sub Total of A.....					
B. SUPERSTRUCTURE					
1. CONCRETE WORK					
1.01	Reinforced concrete in class C-25 with minimum cement content of 378 kg/m ³ filled into formwork and vibrated around rod reinforcement (steel and formwork shall be measured separately)				
	a) To elevation columns	m3	2.59		
	b) To Coping	m3	6.90		
1.02	Provide, cut and fix in position sawn zigba wood or steel formwork which ever appropriate.				
	a) To elevation columns	m2	34.56		
	b) To Coping	m2	15.06		
1.03	Mild steel bar reinforcement according to structural drawings. Reinforcement shall be free from dirt, oil, grease, paint, readers paint, etc and any other substances which may affect the reinforcement and concrete bond (price include cutting bending and placing in position).				
	a) To elevation columns				
	Dia. 8 plain bar	kg	82.37		
	Dia. 12 deformed bar	kg	202.75		
1.04	Construct Jersey Barriers provided for security purposes as per the detail drawings and shall be placed at selected postions. The price shall include the cost of concrete, formwork, minimum reinforcment bars, transporting, placing and all incedental works required	Pcs	20.00		
Sub Total of B-1.....					

Item No.	Description	Unit	Qty	Unit Rate (Birr)	Amount (Birr)
2. BLOCK WALL WORK					
2.01	Demolish the existing HCB block fence work. The price shall include all costs related to demolishing and cart away and disposal of unnecessary materials to appropriate tips	m2	301.20		
2.02	Construct 20cm thick class 'B' H.C.B wall bedded and jointed in cement mortar (1:3) both side left for appropriate finishing.				
	a) To Exterior fence	m2	575.00		
	b) To interior fence	m2	75.00		
Sub Total of B-2.....					
3. METAL WORK					
3.01	Dismantle and Remove all exterior main entrance doors , its all accessories and steel grill that will be replaced with the listed below specification as per the detail design drawings	No.	4.00		
3.02	Supply and Install Roller guide Sliding steel door for vehicles. heavy duty sliding door made of IPE frame size of 143 x70mm and enclosed by 60 x100 mm RHS and vertically braced 20X40 mm RHS, Rail fixed as per the detail drawings, and 10mm thick flexi glass.The price shall include all the materials included in the detail, including plates, anchorage bolts and nuts, anti-rust painting and 2 coats oil painting, , flashing and all to the full satisfaction of the engineer,as well as all necessary works to fix the door. Contractors are advised to see the detail drawings prior.				
i	Gate 2 & 3 size 4000 x 2400mm	pcs	2.00		
3.03	Supply and fix main gate doors made of metal profile 60mmx20mmx2mm RHS and as shown on the detail drawing, the doors fixed on 100mm X100mmX3mm RHS Posts with 10mm thick plexi glass.Price shall include all the necessary best quality iron monagry , door stoper , cylinderic lock ,handle. The door shall be oil painted spraied after antirust prime coat applied.				
i	Gate 1 size 6200 x 2400mm	pcs	1.00		
ii	Gate 1 size 900 x 2400mm	pcs	1.00		
iii	Gate 1 size 5200 x 2400mm	pcs	1.00		
3.05	screen sheet (with 2mm thick aluminum partition wall with steel sections for bracing and fixed on ground and wall) as per drawings. Vertical l-section not less than (15cm x 7cm x 6mm) shall be fixed in ground with base reinforcement concrete. Vertical l-section spacing shall be not more than 6 m. with diagonal bracing. Horizontal tubes not less (5cm x 2cm x 2mm) shall be fixed on vertical l-section, spacing not more than 50 cm.	m2	37.80		
3.06	supply and install Razor wires high 60 cm. 6 rows to be fixed above the fence. As per drawings.	ml	263.00		
Sub Total of B-3.....					

Item No.	Description	Unit	Qty	Unit Rate (Birr)	Amount (Birr)
4. FINISHING					
4.01	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 beams and columns	m ²	214.40		
	b)To Coping	m ²	27.00		
	c) HCB wall	m ²	1,350.00		
4.02	Supply and fix stair Marble Tread size 300mmx 30mm thick bedded in cement mortar (1:3).	ml	7.20		
4.03	Ditto but riser size 155x20mm.	ml	8.40		
Sub Total of B-4.....					
5. PAINTING					
5.01	Applyemulsion paint. Price shall include pre - cleaning & preparation of the surface.				
	a) To both faces of HCB wall	m ²	1,350.00		
	b) To concrete Colomns and coping	m ²	241.40		
5.02	Paint all metal elements with applicable paint after antirust paint	m ²	600.00		
Sub Total of B-5.....					
Sub Total of B					
TOTAL SUMMARY					

Item No.	Description	Unit	Qty	Unit Rate (Birr)	Amount (Birr)
2. SPUTUM COLLECTION AREA					
A. SUBSTRUCTURE					
1. EXCAVATION AND EARTH WORK					
1.01	Site clearing and removing the top 200 mm thick soil	m2	41.80		
1.02	Bulk excavation in ordinary soil to a depth of up to 500 mm from reduced level.	m3	20.90		
1.03	Trench excavation in ordinary soil for Grade beam to depth of 500 mm from reduced level.	m3	13.08		
1.04	Fill under floor slab with imported selected materials from out side well rolled and compacted in layers not exceeding 200 mm thick.	m3	20.90		
1.05	250mm thick basaltic or equivalent stone hardcore well rolled, consolidated and blinded with crushed stone	m2	41.80		
1.06	Remove surplus excavated materials and deposit to a distance 5Km.	m3	42.34		
Sub Total of A-1.....					
2. CONCRETE WORK					
2.01	50mm lean concrete quality C-7, 150 kg of cement/m3, a) Under Grade Beam	m2	10.46		
2.02	Reinforced concrete in class C-25 with minimum cement content of 360 kg/m ³ filled into formwork and vibrated around rod reinforcement (steel and formwork shall be measured separately)				
	d) To Grade beams	m3	2.30		
	e) To 100 mm thick ground floor slab	m2	41.80		
2.03	Formwork shall be timbered or steel or a combination of two, sufficient to contain the wet concrete without leakage. Enough to support temporary loading and pressure from placing Compaction or vibration without displacement or appreciable deflection.				
	a) To Grade beams	m2	20.92		
2.04	Mild steel bar reinforcement according to structural drawings. Reinforcement shall be free from dirt, oil, grease, paint, readers paint, etc and any other substances which may affect the reinforcement and concrete bond (price include cutting bending and placing in position).				
	a) In Grade beam				
	Dia.8 deformed bar	kg	64.35		
	Dia.12 deformed bar	kg	158.40		
	b) In Ground Slab				
	Dia.8 deformed bar	kg	140.00		
Concrete Ancillaries					
2.05	25mm thick 200mm deep chipwood expansion joint filler.	ml	28.77		
Sub Total of A-2.....					
Sub Total of A.....					

Item No.	Description	Unit	Qty	Unit Rate (Birr)	Amount (Birr)
B. SUPERSTRUCTURE					
1. BLOCK WALL WORK					
1.01	20cm thick class 'B' H.C.B wall bedded and jointed in cement mortar (1:3) both side left for appropriate finishing.	m2	29.64		
Sub Total of B-1.....					
2. ROOFING					
2.01	400 EGA Transparent Roof Cover	m2	30.00		
2.02	350x250x3mm galvanized iron sheet Gutter total development length 1065mm	ml	11.00		
2.03	Roof to wall connection metal sheet coping development length and detail as shown on the drawing	ml	7.00		
2.04	200mm G-28 Storm water down pipe 160mm diameter PVC	ml	7.00		
Sub Total of B-2.....					
3. METAL WORK					
Supply and fix RHS members as per the detail drawing					
3.01	80 x 80 x3 mm RHS steel posts anchored to the grade beam with bolts and nuts. The price shall include all fixing, 5mm plates anchored				
3.02	Steel Roof Truss				
The steel truss shall be RHS members as per the detail design drawings					
ii	60x60x3mm RHS Horizontal members	Kg	220.42		
iii	40x40x3mm RHS Vertical and diagonal bracing Members	Kg	100.92		
3.03	Partition Wall				
i	100 mm thick aluminium profile with aluminium panel single side height and width for each compartments as per the detail design	m2	25.62		
Sub Total of B-3.....					
4.FINISHING					
4.1 .WALL FINISH					
4.1.1	Apply Pointing in cement mortar (1:3) .Price shall include pre-cleaning and preparation of the surface.				
	a)To internal and External Wall wall surface.	m ²	59.28		
4.2. FLOOR FINISH					
4.2.1	5cm thick cement screed flooring with out glass	m ²	41.80		
4.2.2	10cm high ceramic tile skirting fixed to wall	ml	48.40		
4.2.3	10cm concrete pavement around the bulding .it shall be laid on compacted earth /fill and 100mm sand/red ash beding and jointed with cement sand mix 1.3 mortar .Price shall include all necessary civil works.The colour should be approved by the Architect.	m2	56.00		
Sub Total of B-4.....					

Item No.	Description	Unit	Qty	Unit Rate (Birr)	Amount (Birr)
5. PAINTING					
5.01	Apply three coats of plastic emulsion paint. Price shall include pre - cleaning & preparation of the surface.				
	a) To internal and external plastered wall surface.	m2	59.28		
	b) To RHS Steel posts	ls	1.00		
	Sub Total of B-5.....				
6. SANITARY INSTALLATION					
6.01	Supply water supply system from the near by system to the hand wash. The price shall include all civil works required, galvanized pipes, gate valves, accessories and elbows	ls	1.00		
6.01	Supply and fix R.A.K. or Equivalent, hand wash basins made of white glazed vitreous china ceramic with mirror polished with pedastal stand . The price includes KLUDI R.A.K. or Equivalent Single-lever basin mixer for standard basins with waste set water faucet, complete with mixing battery plug, chrome plated chain holder, P-smell trap with connection pipe, fittings, all other necessary etc. complete in all respects. Flexible hose to be KLUDI R.A.K. or Equivalent and should be capable of resisting pressure of 4 bar. P-smell trap should be KLUDI R.A.K. or Equivalent brass chrome plated with 50mm height of water seal and trap.Faucet Brand: KLUDI R.A.K. or Equivalent Maximum flow rate: 6 l/min Size of Granite topping: 900x600x20 mm (Single Bowel). The price shall include all pipinig supply, fix installation	Set	2.00		
	Sub Total of B-6.....				
	Sub Total of B.....				
	TOTAL SUMMARY				

Item No	Description	Unit	Qty	Unit Rate (Birr)	Amount (Birr)
3. Waiting Area for X-Ray					
A. SUBSTRUCTURE					
1. EXCAVATION AND EARTH WORK					
1.01	Site clearing and removing the top 200 mm thick soil	m2	62.50		
1.02	Bulk excavation in ordinary soil to a depth of up to 500 mm from reduced level.	m3	31.25		
1.07	Trench excavation in ordinary soil for Grade beam to depth of 500 mm from reduced level.	m3	10.25		
1.09	Fill under floor slab with imported selected materials from out side well rolled and compacted in layers not exceeding 200 mm thick.	m3	25.00		
1.11	250mm thick basaltic or equivalent stone hardcore well rolled, consolidated and blinded with crushed stone	m2	62.50		
1.11	Remove surplus excavated materials and deposit to a distance 5 Km.	m3	54.00		
Sub Total of A-1.....					
2. CONCRETE WORK					
2.01	50mm lean concrete quality C-7, 150 kg of cement/m3,				
	a) Under Grade Beam	m2	10.25		
2.02	Reinforced concrete quality C-25, minimum cement content of 420 kg of cement/m3 filled in to form work and vibrated around rod reinforcement (formwork and reinforcement measured separately)				
	a) To Grade beams	m3	1.64		
	b) To 100 mm thick ground floor slab	m2	62.50		
2.03	Formwork shall be timbered or steel or a combination of two, sufficient to contain the wet concrete without leakage. Enough to support temporary loading and pressure from placing Compaction or vibration without displacement or appreciable deflection.				
	a) To Grade beams	m2	16.40		
2.04	Mild steel bar reinforcement according to structural drawings. Reinforcement shall be free from dirt, oil, grease, paint, readers paint, etc and any other substances which may affect the reinforcement and concrete bond (price include cutting bending and placing in position).				
	a) In Grade beam				
	Dia.8 deformed bar	kg	40.37		
	Dia.12 deformed bar	kg	108.24		
	b) In Ground Slab				
	Dia.8 deformed bar	kg	221.52		
Concrete Ancillaries					
2.05	25mm thick 200mm deep chipwood expansion joint filler.	ml	30.00		
Sub Total of A-2.....					
Sub Total of A.....					

Item No	Description	Unit	Qty	Unit Rate (Birr)	Amount (Birr)
B. SUPERSTRUCTURE					
1. BLOCK WALL WORK					
1.01	20cm thick class 'B' H.C.B wall bedded and jointed in cement mortar (1:3) both side left for aproprate finishing.	m2	24.84		
Sub Total of B-1.....					
2. ROOFING					
ROOF COVER					
2.01	400 EGA sheet prepainted galvanized iron sheet	m2	47.20		
2.02	350x250x3mm galvanized iron sheet Gutter total development length 1065mm	ml	7.65		
2.03	200mm G-28 Storm water down pipe 160mm diamter PVC	ml	10.10		
Sub Total of B-2.....					
3.METAL WORK					
Supply and fix RHS memebers as per the detail drawing					
3.01	100 x 100 x3 mm RHS steel posts anchored to the grade beam with bolts and nuts. The price shall include all fixing, 5mm plates anchored	Kg	159.55		
3.02	Steel Roof Truss				
	The steel truss shall be RHS memebers as per the detail design drawings				
i	60x60x3mm RHS Upper and lower members of the truss	Kg	252.90		
ii	40x40x3mm RHS diagonal memebers	Kg	89.42		
iii	40x40x3mm RHS Vertical Memebers	Kg	69.55		
iv	30x30x3mm RHS purlin spacing 900mm c/c	kg	128.40		
Sub Total of B-3.....					
4.FINISHING					
4.1 .WALL FINISH					
4.1.1	ApplyPointing in cement mortar (1:3) .Price shall include ,pre-cleaning and preparation of the surface.				
	a)ToHCB Wall Surface internal and External.	m ²	45.53		
4.2. FLOOR FINISH					
4.2.1	5cm thick cement screed flooring with out glass	m ²	47.20		
Sub Total of B-4.....					
5. PAINTING					
5.10	Apply three coats of plastic emulsion paint. Price shall include pre - cleaning & preparation of the surface.				
	a) To internal and external pointed wall surface.	m2	45.53		
	b) To RHS Steel posts	ls	1.00		
Sub Total of B-5.....					
Sub Total of B.....					
TOTAL SUMMARY					

Item No.	Description	Unit	Qty	Unit Rate (Birr)	Amount (Birr)
4. Waiting area before registration for Self Payers					
A. SUBSTRUCTURE					
1. EXCAVATION AND EARTH WORK					
1.01	Site clearing and removing the top 200 mm thick soil	m2	158.16		
1.02	Bulk excavation in ordinary soil to a depth of up to 500 mm from reduced level.	m3	79.08		
1.03	Trench excavation in ordinary soil for Grade beam to depth of 500 mm from reduced level.	m3	22.05		
1.04	Fill around masonry foundation with imported selected materials from outside well rolled and compacted in layers not exceeding 200 mm thick.	m3	11.15		
1.05	Fill under floor slab with imported selected materials from outside well rolled and compacted in layers not exceeding 200 mm thick.	m3	79.08		
1.06	250mm thick basaltic or equivalent stone hardcore well rolled, consolidated and blinded with crushed stone	m2	158.16		
1.07	Remove surplus excavated materials and deposit to a distance 10 Km.	m3	132.76		
Sub Total of A-1.....					
2. CONCRETE WORK					
2.01	50mm lean concrete quality C-7, 150 kg of cement/m3, a) Under Grade Beam	m2	17.64		
2.02	Reinforced concrete quality C-25, minimum cement content of 420 kg of cement/m3 filled in to form work and vibrated around rod reinforcement (formwork and reinforcement measured separately) d) To Grade beams	m3	3.88		
	e) To 100 mm thick ground floor slab	m2	158.16		
2.03	Formwork shall be timbered or steel or a combination of two, sufficient to contain the wet concrete without leakage. Enough to support temporary loading and pressure from placing Compaction or vibration without displacement or appreciable deflection. d) To Grade beams	m2	35.28		
2.04	Mild steel bar reinforcement according to structural drawings. Reinforcement shall be free from dirt, oil, grease, paint, readers paint, etc and any other substances which may affect the reinforcement and concrete bond (price include cutting bending and placing in position). c) In Grade beam Dia.8 deformed bar	kg	87.36		
	Dia.12 deformed bar	kg	235.49		
	d) In Ground Slab Dia.8 deformed bar	kg	422.97		
Concrete Ancillaries					
2.05	25mm thick 200mm deep chipwood expansion joint filler.	ml	48.51		
Sub Total of A-2.....					
Sub Total of A.....					

Item No.	Description	Unit	Qty	Unit Rate (Birr)	Amount (Birr)
B. SUPERSTRUCTURE					
1. BLOCK WALL WORK					
1.01	20cm thick class 'B' H.C.B wall bedded and jointed in cement mortar (1:3) both side left for appropriate finishing.	m2	58.21		
Sub Total of B-1					
2. ROOFING					
ROOF COVER					
2.01	400 EGA sheet prepainted galvanized iron sheet	m2	165.60		
2.02	350x250x3mm galvanized iron sheet Gutter total development length 1065mm	ml	15.00		
2.03	200mm G-28 Storm water down pipe 160mm diameter PVC	ml	12.40		
Sub Total of B-2.....					
3. METAL WORK					
Supply and fix RHS members as per the detail drawing					
3.01	100 x 100 x3 mm RHS steel posts anchored to the grade beam with bolts and nuts. The price shall include all fixing, 5mm plates anchored	kg	159.55		
3.02	Steel Roof Truss				
	The steel truss shall be RHS members as per the detail design drawings				
i	60x60x3mm RHS Upper and lower members of the truss	Kg	1,048.78		
ii	40x40x3mm RHS diagonal members	Kg	326.03		
iii	40x40x3mm RHS Vertical Members	Kg	248.40		
iv	30x30x3mm RHS purlin spacing 900mm c/c	kg	410.88		
Sub Total of B-3.....					
4.FINISHING					
4.1 .WALL FINISH					
4.1.1	Apply Pointing in cement mortar (1:3) .Price shall include ,pre-cleaning and preparation of the surface.				
	a) To HCB Wall Surface internal and External.	m ²	116.42		
4.2. FLOOR FINISH					
4.2.1	5cm thick cement screed flooring with out glass	m ²	158.16		
Sub Total of B-4.....					
5. PAINTING					
Apply three coats of plastic emulsion paint. Price shall include pre - cleaning & preparation of the surface.					
	a) To internal and external pointed wall surface.	m2	106.72		
	b) To RHS Steel posts	ls	1.00		
Sub Total of B-5.....					
Sub Total of B.....					
TOTAL SUMMARY					

Item No.	Description	Unit	Quantity	Unit Rate (Birr)	Amount (birr)
5.00	5. X-RAY ROOM				
A	DEMOLISHING WORK				
	Demolishing Work of different structures N.B. price include clearing the working area & Disposal of materials other than those remaining as the property of the Employer or those for re-use				
A-1	HCB WALL				
a	20cm thick HCB Structure	m2	135.04		
b	ditto but 15 cm HCB	m2	75.96		
c	ditto but 10 cm HCB	m2	26.07		
A-2	DOORS AND WINDOWS				
	Dismantle carefully the existing doors and windows including window cement sill & glazing. The price shall include transportation of the dismantled parts and cart away of debris to appropriate tips directed by the Engineer				
a	Doors	Pcs	11.00		
b	Windows	Pcs	3.00		
A-3	Dismantle carefully the existing Electrical installation, light fittings, socket as per the engineer instruction and recommendation	ls	1.00		
A-4	Dismantle carefully the existing sanitary installation & fixtures. Price shall include cart away unused materials from the site where approved by the engineer.	ls	1.00		
SUB TOTAL A.....					
TOTAL OF A.....					
B	RENOVATION WORK				
B-1	WALL				
a	150mm thick hollow concrete block wall of type Class-B with 28 days minimum crushing strength of 32kg/cm ² , bedded in cement mortar (1:3) mix, both sides left for plastering.	m2	27.15		
b	250mm .thick Double Brick Wall	m2	181.20		
c	100mm thick dry partition wall made of Aluminum extruded profiles of 6060 standard of UNI3569 HB65 norms dimensional tolerance and thickness of the aluminum to be of UNI3879 norm spacer for panels with average from 10 - 42mm including 700mm door openings for changing and rest rooms partition. Aluminum profile of bronze color with powdered finish cut and assembled to the sizes and shapes shown on detail drawings. Manufacturing of the partition walls subject to approval of shop drawings to be provided by the Contractor. Price shall include ASSA or equivalent locks necessary door stopper, and handle. All according to the detail drawing. (Industrial type of locks and accessories please refer to door and window schedule).	m2	25.25		
SUB TOTAL B-1.....					

Item No.	Description	Unit	Quantity	Unit Rate (Birr)	Amount (birr)
B-2	<u>METAL WORKS</u>				
	Aluminum windows and doors made of extruded profiles of 6060 standard of UNI3569 HB65 norms dimensional tolerance and thickness of the aluminum to be of UNI3879 norm spacer for the glazing and panels with average from 10 - 42mm. Operable windows to be of horizontal and vertical pivoting. Aluminum profile of bronze color with powdered finish cut and assembled to the sizes and shapes shown on the schedule of windows and doors. Manufacturing of the door and windows subject to approval of shop drawings to be provided by the Contractor. Price shall include ASSA or equivalent locks necessary door stopper, and handle. All according to the detail drawing.(glazing m/s). (Industrial type of locks and accessories please refer to door and window schedule).				
a	<u>Doors</u>				
a.1	D ₁ .size (1000X2100)mm	No.	6.00		
b	<u>Lead-Lined Steel doors</u>				
	Hollow metal lead line doors as per IS 4351 & IS 16074 made of pressed galvanized steel conforming to IS 277. Door frame shall be double rebate profile of size 143 x 57 mm made out of 2.0 mm (14 gauge) thick galvanized steel sheet. Frames shall be butted and field assembled with bolts. The inside face of the frame face trim to rebate height should be protected with 1.6 mm thick lead line. All provision should be mortised, drilled and tapped for receiving appropriate hardware. Rubber door silencers should be provided on the strike jamb. Frames should be provided with back plate bracket and anchor fasteners for installation on a finished plastered masonry wall opening. Once frame is installed it should be grouted with cement & sand slurry necessary for doors on the clear masonry opening.	No.	2.00		
c	<u>Windows</u>				
i	w.size (1200X1500)mm for Control rooms	No.	2.00		
ii	w.size (6900X900)mm	No.	3.00		
iii	w.size (2600X900)mm	No.	1.00		
	SUB TOTAL B-2.....				
B-3	<u>FINISHING WORK</u>				
	Finishing work includes all surface pre cleaning, removal of mortar by chiseling, making good edges of columns and beams, preparation of grooves b/n surface where ever indicated, preparation and application of finish, polishing and cleaning after end of work.				
a	Apply two coats of plaster in cement sand mortar mix 1:3 to internal surfaces.	m ²	307.80		
b	Apply three coats of plaster in cement sand mortar mix 1:3 to external surfaces.	m ²	133.80		
c	Ditto but surfaces to receive ceramic wall tiles.	m ²	28.80		

Item No.	Description	Unit	Quantity	Unit Rate (Birr)	Amount (birr)
d	Apply 3 rd coat gypsum plastering for plastered internal surface.	m2	307.80		
e	Supply and fix 300x300x6mm thick glazed ceramic wall tile on 20mm thick cement sand mortar of mix design 1:4 and joints in cement mortar 1:2.	m2	28.80		
i	Supply and fix 100 mm high Marble skirting. Price shall include mortar backing and grouting with approved color and type filler.	m2	96.38		
k	Supply and fix 300 mm width and 30mm thick Marble window sill bedded on cement mortar(1:3). Price shall include screed & all other necessary works.	m2	6.70		
SUB TOTAL B-3.....					
B-4	<u>GLAZING</u>				
a	Supply and fix 6 mm thick clear glass . Price shall include fixing accessories.	m2	7.80		
b	Supply and Fix 6mm thick Radiation protection leaded glass (radiation shielding glass or lead glass) for windows on the exterior wall as well as control room window for viewing the imaging or radiation procedures	m2	20.88		
SUB TOTAL B-4.....					
B-5	<u>PAINTING</u>				
a	Plastic emulsion paint (for all internal walls and ceilings surfaces, excluding oil paint area)	m2	315.48		
b	Washable oil paint (washable oil paint up to 200cm high on corridors and internal walls, except exposure rooms)	m2	258.55		
SUB TOTAL B-5.....					
B-6	<u>ELECTRICAL INSTALLATION</u>				
a	Electrical Installation works are included in separate work as per the detail design drawings and specifications. Contractors advised to investigate the existing hotel building.				
SUB TOTAL B-6.....					

Item No.	Description	Unit	Quantity	Unit Rate (Birr)	Amount (birr)
B-7	SANITERY INSTALLATION				
	SANITARY EQUIPMENT (FIXTURES)				
	All fixtures which differs from that specified below is subject to the owner's approval, based on samples, catalogues and brochures presented by the Contractor. Unit Price shall include all the necessary piping fixing brackets or hooks and all the necessary assistance civil works such as chiseling of walls,floors, beams and etc... ALL FIXTURES ARE APPROVED EUROPEAN BRAND				
a	Supply and fix R.A.K. or Equivalent, hand wash basins made of white glazed vitreous china ceramic with mirror polished with pedastal stand . The price includes KLUDI R.A.K. or Equivalent Single-lever basin mixer for standard basins with waste set water faucet, complete with mixing battery plug, chrome plated chain holder, P-smell trap with connection pipe, fittings, all other necessary etc. complete in all respects. Flexible hose to be KLUDI R.A.K. or Equivalent and should be capable of resisting pressure of 4 bar. P-smell trap should be KLUDI R.A.K. or Equivalent brass chrome plated with 50mm height of water seal and trap.Faucet Brand: KLUDI R.A.K. or Equivalent Maximum flow rate: 6 l/min Size of Granite topping: 900x600x20 mm (Single Bowl)	Set	2.00		
b	Suppy and Fix R.A.K. or Equivalent, white glazed vitreous china floor mounting type (European style) P/S trap water closet with solid white plastic seat and lid, chrome plated brass hinges and rubber buffers with white vitreous china 3/6 dual flush coupled cistern including required fittings, accessories etc. complete in all respects. Flexible hose to be R.A.K or Equivalent and should be capable of resisting pressure of 4 bar. The price includes floor mounting type (European style) P/S trap water closet with	Set	2.00		
c	Supply and fix R.A.K. or Equivalent white glazed vitreous china wall mounting type toilet paper holder with chrome plated fastening screws and other accessories.	Pcs	2.00		
	SUB TOTAL B-7.....				
B-8	MECHANICAL INSTALLATION				
	Provide a dedicated air handling unit complete with return and /or exhaust fan for Radiology lead wrapping of duct work penetrating on the brickwalls. Unit Price shall include all the necessary duct work fixing brackets or hooks and all the necessary assistance civil works such as chiseling of walls,floors, beams	Pcs	2.00		
	SUB TOTAL B-8.....				
	TOTAL OF B.....				
	TOTAL CARRIED TO SUMMARY.....				

Item No.	Description	Unit	Quantity	Unit Rate (Birr)	Amount (birr)
6. MAIN BUILDING RENOVATION					
6.10	1.GROUND FLOOR				
6.1.1	DEMOLISHING WORK				
	Demolishing Work of different structures N.B. price include clearing the working area & Disposal of materials other than those remaining as the property of the Employer or those for re-use				
6.1.1.1	HCB WALL				
	Dismantle carefully the existing HCB wall as shown on the demolishing plan and as per the Engineer directions, Price shall includes cart away unused materials from the site where approved by the engineer				
a	20cm thick HCB Structure	m2	4.50		
6.1.2	RENOVATION WORK				
6.1.2.1	METAL WORKS				
	Aluminum partition walls made of extruded profiles of 6060 standard of UNI3569 HB65 norms dimensional tolerance and thickness of the aluminum to be of UNI3879 norm spacer for the glazing and panels with average from 10 - 42mm. Operable windows to be of horizontal and vertical pivoting. Aluminum profile of bronze color with powdered finish cut and assembled to the sizes and shapes shown on the schedule of windows and doors. Manufacturing of the door and windows subject to approval of shop drawings to be provided by the Contractor. Price shall include ASSA or equivalent locks necessary door stopper, and handle. All according to the detail drawing, including 6mm thick clear glass. (Industrial type of locks and accessories please refer to door and window schedule).				
a	Partition walls				
i	PW 1 (8030 x 3300)	pcs	1.00		
ii	PW 2 (4480 x 3050)	pcs	2.00		
iii	PW 3 (4230 x 3050)	pcs	2.00		
iv	PW 4 (2110 x 3050)	pcs	1.00		
v	PW 5 (5870 x 3050)	pcs	1.00		
vi	PW 6 (5130 x 3050)	pcs	1.00		
vii	PW 7 (900 x 3050)	pcs	1.00		
viii	PW 8 (5790 x 3050)	pcs	1.00		
ix	PW 9 (1100 x 5000)	pcs	1.00		
X	PW 10 (7960 x 5000)	pcs	1.00		
xi	PW 11 (880 x 5000)	pcs	1.00		
b	Cubicles for registrations				
i	PW 1 (8030 x 3300)	pcs	8.00		
6.1.2.2	FINISHING WORK				
a	supply and fix clading on both sides with acoustic sound proof material along the partision walll PW 9, PW 10, PW 11. inside of the pannels shall be filled with blankets/ foam as per the detail drawings and engineers instructuions. Contractor shall furnish material samples, technical data and quality assurance of the sound proofing material for Engineer approval prior to manufacturing.	m2	153.60		

Item No.	Description	Unit	Quantity	Unit Rate (Birr)	Amount (birr)
b	5mm thick heavy duty chemical and abrasion resistance epoxy floor screening shall be applied by trowel as a durable previous floor finish & also type must similar to the previous floor finish. (including 90 micron thick epoxy resin on top of it)	m2	47.56		
6.1.2.3	<u>PAINING</u>				
a	Plastic emulsion point (for all internal walls and ceilings surfaces, excluding oil paint area)	ls	1.00		
b	Washable oil paint (washable oil paint up to 200cm high on corridors and internal walls)	ls	1.00		
6.1.2.4	<u>ELECTRICAL INSTALLATION</u>				
a	Electrical Installation works are included in separate work as per the detail design drawings and specifications. Contractors advised to investigate the existing hotel building.				
SUB TOTAL 6.1					
6.20	<u>MEZZANINE FLOOR</u>				
6.2.1	<u>RENOVATION WORK</u>				
6.2.1.1	<u>METAL WORKS</u>				
a	Aluminum Partition Walls made of extruded profiles of 6060 standard of UNI3569 HB65 norms dimensional tolerance and thickness of the aluminum to be of UNI3879 norm spacer for the glazing and panels with average from 10 - 42mm. including frosted glazing. Aluminum profile of bronze/ivory color with powdered finish cut and assembled to the sizes and shapes shown on the schedule of windows and doors. Manufacturing of the partition walls subject to approval of shop drawings to be provided by the Contractor.				
i	PW 12 (10230 x 3050)	pcs	1.00		
ii	PW13 (3355 x 3050)	pcs	1.00		
b	Partial Grill made of 100mm RHS steel post with 5mm thickness RHS stainless steel of sizes as per the detail design drawings				
	GR 5620 x 1600	pcs	1.00		
	GR 6870 x 1600	pcs	1.00		
	GR 2700 x 1600	pcs	1.00		
	GR 3500 x 1600	pcs	1.00		

Item No.	Description	Unit	Quantity	Unit Rate (Birr)	Amount (birr)
6.2.1.2	<u>PAINTING</u>				
a	Plastic emulsion point (for all internal walls and ceilings surfaces, excluding oil paint area)	ls	1.00		
b	Washable oil paint (washable oil paint up to 200cm high on corridors and internal walls)	ls	1.00		
6.2.1.3	<u>ELECTRICAL INSTALLATION</u>				
a	Supply and install different electrical materials such as PVC-insulated cables, light points, socket outlet points including fixtures, legrand or equivalent light switches and approved light fixtures all as per the detail design drawings. The price shall include all incidental works required	ls	1.00		
6.2.1.4	<u>SANITARY INSTALLATION</u>				
	SANITARY EQUIPMENT (FIXTURES)				
	All fixtures which differs from that specified below is subject to the owner's approval, based on samples, catalogues and brochures presented by the Contractor. Unit Price shall include all the necessary fixing brackets or hooks and all the necessary assistance civil works such as chiseling of walls,floors, beams and etc... ALL FIXTURES ARE APPROVED EUROPEAN BRAND				
	SANITARY EQUIPMENT (FIXTURES)				
TOTAL OF 6.2.....					
6.30	<u>FIRST FLOOR</u>				
6.3.1	<u>DEMOLISHING WORK</u>				
a	Dismantle carefully the existing Electrical installation,direction signs & different signs,ceiling woods,shutter &curtains,lift & UPS Price shall includes cart away unused materials from the site where approved by the engineer	ls	1.00		
b	Dismantle carefully the existing sanitary bath tube carefully in the TC area.Price shall includes transport the dismantled material to appropriate store cart away unused materials from the site where approved by the engineer.	no	4.00		
	Dismantle the existing Jacuzzi properly and place to the designated storage area	no	1.00		
6.3.2	<u>RENOVATION WORK</u>				
6.3.2.1	<u>METAL WORKS</u>				
a	Partial Grill made of 100mm RHS steel post with 5mm thickness RHS stainless steel of sizes as per the detail design drawings				
	GR 5620 x 1600	pcs	1.00		
	GR 6870x 1600	pcs	1.00		
	GR 2700 x 1600	pcs	1.00		
	GR 8940x 3060	pcs	1.00		
	GR 4600x 1600	pcs	2.00		
	GR 1200 x 1600	pcs	1.00		
	GR 4160x 1600	pcs	1.00		
	GR 4740 x 3060	pcs	1.00		
b	Window metal grills for TC bed rooms as per the detail drawing				
	GR 1500x 1600	pcs	3.00		

Item No.	Description	Unit	Quantity	Unit Rate (Birr)	Amount (birr)
6.3.2.2	<u>PAINING</u>				
a	Plastic emulsion paint (for all internal walls and ceilings surfaces, excluding oil paint area)	ls	1.00		
b	Washable oil paint (washable oil paint upto 200cm high on corridors)	ls	1.00		
6.3.2.3	<u>ELECTRICAL INSTALLATION</u>				
a	Electrical Installation works are included in separte work as per the detail design drawings and specifications. Contractors advised to investigate the existing hotel building.				
6.3.2.4	<u>SANITERY INSTALLATION</u>				
	SANITARY EQUIPMENT (FIXTURES)				
	All fixtures which differs from that specified below is subject to the owner's approval, based on samples, catalogues and brochures presented by the Contractor. Unit Price shall include all the necessary fixing brackets or hooks and all the necessary assistance civil works such as chiseling of walls,floors, beams and etc... ALL FIXTURES ARE APPROVED EUROPEAN BRAND				
a	Supply and fix R.A.K. or Equivalent, Shower tray including head and all necessary accessories	Set	4.00		
TOTAL OF 6.3.....					
6.40	<u>SECOND FLOOR</u>				
6.4.1	<u>DEMOLISHING WORK</u>				
a	Dismantle carefully the existing Electrical installation,direction signs & different signs,ceiling woods,shutter &curtains,lift & UPS Price shall includes cart away unused materials from the site where approved by the engineer	ls	1.00		
b	Dismantle carefully the existing sanitary bath tube carefully in the TC area.Price shall includes transport the dismantled material to appropraite store cart away unused materials from the site where approved by the engineer.	No	4.00		
6.4.2	<u>RENOVATION WORK</u>				
6.4.2.1	<u>METAL WORKS</u>				
a	Aluminum windows and doors made of extruded profiles of 6060 standard of UNI3569 HB65 norms dimensional tolerance and thickness of the aluminum to be of UNI3879 norm spacer for the glazing and panels with average from 10 - 42mm. Operable windows to be of horizontal and vertical pivoting. Aluminum profile of bronze color with powdered finish cut and assembled to the sizes and shapes shown on the schedule of windows and doors. Manufacturing of the door and windows subject to approval of shop drawings to be provided by the Contractor. Price shall include ASSA or equivalent locks necessary door stopper, and handle. All according to the detail drawing.(glazing m/s). (Industrial type of locks and accessories please refer to door and window schedule).				

Item No.	Description	Unit	Quantity	Unit Rate (Birr)	Amount (birr)
i	PW 14 (3300 x 3050)	No.	1.00		
b	Partial Grill made of 100mm RHS steel post with 5mm thickness RHS stainless steel of sizes as per the detail design drawings				
	GR 5620 x 1600	pcs	1.00		
	GR 6870 x 1600	pcs	1.00		
	GR 2700 x 1600	pcs	1.00		
	GR 4600 x 1600	pcs	2.00		
	GR 1200 x 1600	pcs	1.00		
	GR 4590 x 1600	pcs	1.00		
	GR 4740 x 1600	pcs	1.00		
c	Window metal grills for TC bed rooms as per the detail drawing				
	GR 1500x 1600	pcs	3.00		
	GR 2000x 1600	pcs	4.00		
6.4.2.2	<u>PAINTING</u>				
a	Plastic emulsion paint (for all internal walls and ceilings surfaces, excluding oil paint area)	ls	1.00		
b	Washable oil paint (washable oil paint upto 200cm high on corridors)	ls	1.00		
6.4.2.3	<u>ELECTRICAL INSTALLATION</u>				
a	Electrical Installation works are included in separte work as per the detail design drawings and specifications. Contractors advised to investigate the exsisting hotel building.				
6.4.2.4	<u>SANITERY INSTALLATION</u>				
	SANITARY EQUIPMENT (FIXTURES)				
	All fixtures which differs from that specified below is subject to the owner's approval, based on samples, catalogues and brochures presented by the Contractor. Unit Price shall include all the necessary fixing brackets or hooks and all the necessary assistance civil works such as chiseling of walls,floors, beams and etc... ALL FIXTURES ARE APPROVED EUROPEAN BRAND				
a	Supply and fix R.A.K. or Equivalent, Shower tray including head and all necessary accessories	Set	4.00		
TOTAL OF 6.4.....					

Item No.	Description	Unit	Quantity	Unit Rate (Birr)	Amount (birr)
6.50	<u>THIRD FLOOR</u>				
6.5.1	<u>DEMOLISHING WORK</u>				
a	Dismantle carefully the existing Electrical installation,direction signs & different signs,ceiling woods,shutter &curtains,lift & UPS Price shall includes cart away unused materials from the site where approved by the engineer	Is	1.00		
b	Dismantle carefully the existing sanitary bath tube carefully in the TC area.Price shall includes transport the dismantled material to appropraite store cart away unused materials from the site where approved by the engineer.	No.	4.00		
6.5.2	<u>RENOVATION WORK</u>				
6.5.2.1	<u>METAL WORKS</u>				
	Aluminum windows and doors made of extruded profiles of 6060 standard of UNI3569 HB65 norms dimensional tolerance and thickness of the aluminum to be of UNI3879 norm spacer for the glazing and panels with average from 10 - 42mm. Operable windows to be of horizontal and vertical pivoting. Aluminum profile of bronze color with powdered finish cut and assembled to the sizes and shapes shown on the schedule of windows and doors. Manufacturing of the door and windows subject to approval of shop drawings to be provided by the Contractor. Price shall include ASSA or equivalent locks necessary door stopper, and handle. All according to the detail drawing.(glazing m/s). (Industrial type of locks and accessories please refer to door and window schedule).				
a	<u>Doors</u>				
a.1	PW 14 (3300 x 3050)	No.	1.00		
	PW 15 (1740 x 3050)	No.	1.00		
b	Partial Grill made of 100mm RHS steel post with 5mm thickness RHS stainless steel of sizes as per the detail design drawings				
	GR 5620 x 1600	pcs	1.00		
	GR 6870 x 1600	pcs	1.00		
	GR 2700 x 1600	pcs	1.00		
	GR 4600 x 1600	pcs	2.00		
	GR 1200 x 1600	pcs	1.00		
	GR 4590 x 1600	pcs	1.00		
	GR 4740 x 1600	pcs	1.00		
6.5.2.2	<u>PAINTING</u>				
a	Plastic emulsion paint (for all internal walls and ceilings surfaces, excluding oil paint area)	Is	1.00		
b	Washable oil paint (washable oil paint upto 200cm high on corridors)	Is	1.00		
6.5.2.3	<u>ELECTRICAL INSTALLATION</u>				
a	Electrical Installation works are included in separte work as per the detail design drawings and specifications. Contractors advised to investigate the existing hotel building.				

Item No.	Description	Unit	Quantity	Unit Rate (Birr)	Amount (birr)
6.5.2.4	SANITERY INSTALLATION				
	SANITARY EQUIPMENT (FIXTURES)				
	All fixtures which differs from that specified below is subject to the owner's approval, based on samples, catalogues and brochures presented by the Contractor. Unit Price shall include all the necessary fixing brackets or hooks and all the necessary assistance civil works such as chiseling of walls,floors, beams and etc... ALL FIXTURES ARE APPROVED EUROPEAN BRAND				
a	Supply and fix R.A.K. or Equivalent, Shower tray including head and all necessary accessories	Set	4.00		
	TOTAL OF 6.5.....				
6.60	<u>FOURTH FLOOR</u>				
6.6.1	<u>DEMOLISHING WORK</u>				
a	Dismantle carefully the existing Electrical installation,direction signs & different signs,ceiling woods,shutter &curtains,lift & UPS Price shall includes cart away unused materials from the site where approved by the engineer	ls	1.00		
b	demolish and cart away HCB block for the confrence hall door entrance	m2	2.10		
6.6.2	<u>RENOVATION WORK</u>				
6.6.2.1	<u>HCB WALL</u>				
a	200 mm thick hollow concrete block wall of type Class-B with 28 days minimum crushing strength of 32kg/cm2, bedded in cement mortar (1:3) mix, both sides left for plastering.	m2	26.10		
b	Ditto as 1.2.1. but 15cm thick HCB	m2	15.00		
6.6.2.2	<u>METAL WORKS</u>				
	Aluminum windows and doors made of extruded profiles of 6060 standard of UNI3569 HB65 norms dimensional tolerance and thickness of the aluminum to be of UNI3879 norm spacer for the glazing and panels with average from 10 - 42mm. Operable windows to be of horizontal and vertical pivoting. Aluminum profile of bronze color with powdered finish cut and assembled to the sizes and shapes shown on the schedule of windows and doors. Manufacturing of the door and windows subject to approval of shop drawings to be provided by the Contractor. Price shall include ASSA or equivalent locks necessary door stopper, and handle. All according to the detail drawing.(glazing m/s). (Industrial type of locks and accessories please refer to door and window schedule).				
a	Glazed Partition Wall-the price shall include 6mm thick frosted glass work				
	Pw (2500X 3000)	Pcs	2.00		
b	Dry partition wall made of aluminium profiles and aluminium pannel clading and 700mm door for changing room of the laboratory. rice shall include ASSA or equivalent locks necessary door stopper, and handle. All according to the detail drawing. (Industrial type of locks and accessories please refer to door and window schedule).	m2	12.90		

Item No.	Description	Unit	Quantity	Unit Rate (Birr)	Amount (birr)
a	Doors				
i	D ₁ size (1000X2100)mm Biometric door single door type for laboratory room entrance	No.	1.00		
ii	D size (900mmX2100mm) Sliding door inside the laboratory room	No.	1.00		
iii	D size (900mmX2100mm) door for confrence hall	No.	1.00		
b	Windows				
	W (4500x1500) inside the lab office-the price shall include 6mm thick clear glass	No	1.00		
c	Partial Grill made of 100mm RHS steel post with 5mm thickness RHS stainless steel of sizes as per the detail design drawings				
	GR 5620 x 1600	pcs	1.00		
	GR 6870 x 1600	pcs	1.00		
	GR 2700 x 1600	pcs	1.00		
	GR 4590 x 1600	pcs	1.00		
	GR 4740 x 1600	pcs	1.00		
6.6.2.3	FINISHING WORK				
i	supply and fix clading on both sides with acoustic sound proof material along the partision walll PW 9, PW 10, PW 11. inside of the pannels shall be filled with blankets/ foam as per the detail drawings and engineers instructuions. Contractor shall furnish material samples, technical data and quality assurance of the sound proofing material for Engineer approval prior to manufacturing.	m2	35.00		
ii	5mm thick heavy duty chemical and abrasion resistance epoxy floor screening shall be applied by trowel as a durable previous floor finish & also type must similar to the previous floor finish. (including 90 micron thick epoxy resin on top of it)	m2	75.00		
iii	Supply and fix approved type and quality 200 x 200mm Unglazed ceramic floor tile on 39mm thick cement sand mortar of mix design 1:3. Price shall include 39mm thick cement sand screed and all other necessary works.	m2	25.00		
iv	Supply and fix 100x30mm Marble window sill bedded on cement mortar(1:3). Price shall include screed & all other necessary works.	m2			
6.6.2.4	PAINTING				
a	Plastic emulsion paint (for all internal walls and ceilings surfaces, excluding oil paint area)	ls	1.00		
b	Washable oil paint (washable oil paint upto 200cm high on corridors)	ls	1.00		
6.6.2.5	ELECTRICAL INSTALLATION				
a	Electrical Installation works are included in separte work as per the detail design drawings and specifications. Contractors advised to investigate the existing hotel building.				

Item No.	Description	Unit	Quantity	Unit Rate (Birr)	Amount (birr)
6.6.2.6	SANITERY INSTALLATION				
	SANITARY EQUIPMENT (FIXTURES)				
	All fixtures which differs from that specified below is subject to the owner's approval, based on samples, catalogues and brochures presented by the Contractor. Unit Price shall include all the necessary fixing brackets or hooks and all the necessary assistance civil works such as chiseling of walls,floors, beams and etc... ALL FIXTURES ARE APPROVED EUROPEAN BRAND				
a	Provide Water supply. The price shall include all piping works accessories and civil works required as per the engineer instruction	Is	1.00		
b	Supply and fix R.A.K. or Equivalent, hand wash basins made of white glazed vitreous china ceramic with mirror polished with pedastal stand . The price includes KLUDI R.A.K. or Equivalent Single-lever basin mixer for standard basins with waste set water faucet, complete with mixing battery plug, chrome plated chain holder, P-smell trap with connection pipe, fittings, all other necessary etc. complete in all respects. Flexible hose to be KLUDI R.A.K. or Equivalent and should be capable of resisting pressure of 4 bar. P-smell trap should be KLUDI R.A.K. or Equivalent brass chrome plated with 50mm height of water seal and trap.Faucet Brand: KLUDI R.A.K. or Equivalent Maximum flow rate: 6 l/min Size of Granite topping: 900x600x20 mm (Single Bowl)	Set	1.00		
6.6.2.7	MECHANICAL INSTALLATION				
	Provide a dedicated air handling unit complete with return and /or exhaust fan for laboratory of duct work penetrating on the HCB walls. Unit Price shall include all the necessary duct work fixing brackets or hooks and all the necessary assistance civil works such as chiseling of walls,floors, beams	Set	1.00		
	TOTAL OF 6.6.....				
	TOTAL CARRIED TO SUMMARY.....				

Item No.	Description	Unit	Qty	Unit Rate (Birr)	Amount (Birr)
7. SECURITY GUARD HOUSE					
A. SUBSTRUCTURE					
1. EXCAVATION AND EARTH WORK					
1.01	Site clearing and removing the top 200 mm thick soil	m2	14.26		
1.02	Bulk excavation in ordinary soil to a depth of up to 500 mm from reduced level.	m3	7.13		
1.03	Fill under floor slab with imported selected materials from out side well rolled and compacted in layers not exceeding 200 mm thick.	m3	5.70		
1.04	250mm thick basaltic or equivalent stone hardcore well rolled, consolidated and blinded with crushed stone	m2	14.26		
1.05	Remove surplus excavated materials and deposit to a distance 5Km.	m3	9.98		
Sub Total of A-1					
2. CONCRETE WORK					
2.02	Reinforced concrete in class C-25 with minimum cement content of 360 kg/m ³ filled into formwork and vibrated around rod reinforcement (steel and formwork shall be measured separately)				
	a) To 100 mm thick ground floor slab	m2	14.26		
2.03	Formwork shall be timbered or steel or a combination of two, sufficient to contain the wet concrete without leakage. Enough to support temporary loading and pressure from placing Compaction or vibration without displacement or appreciable deflection.				
	a) To Ground slab	m2	1.54		
2.04	Mild steel bar reinforcement according to structural drawings. Reinforcement shall be free from dirt, oil, grease, paint, readers paint, etc and any other substances which may affect the reinforcement and concrete bond (price include cutting bending and placing in position).				
	a) In Ground Slab				
	Dia.8 deformed bar	kg	64.48		
Sub Total of A-2.....					
Sub Total of A.....					

Item No.	Description	Unit	Qty	Unit Rate (Birr)	Amount (Birr)
B. SUPERSTRUCTURE					
1. METAL WORK					
1.01	100 X 100X 3mm RHS Steel Posts fixed in the Ground Slab with bolts and nuts to the anchored plates on ground floor. The Price shall include the RHS price, the plates anchored on ground slab, bolts and nuts and all necessary civil works required to erect the post. The paint will be measured separately	kg	118.53		
1.02	RHS Truss Memebers				
i	Upper member size 60x60x3mm as shown on the detail drawing	kg	90.35		
ii	Lower member size 60x60x3mm as shown on the detail drawing	kg	88.43		
iii	Vertical and diagonal bracing members of size 40x40x3mm	kg	15.70		
iv	Purlin of size 30 x 30 x3 mm	kg	43.16		
1.03	RHS Grill				
i	60x60x3 mm RHS Gril posts with 800mm spacing anchored with bolted connection with the slab. The work also includes anchorage of 6mm thick plates of 200X200 anchored on ground slab.	kg	30.76		
ii	20x40x3 mm RHS c/c spacing 200mm	kg	13.20		
Sub Total of B-1.....					
2. ROOFING					
2.01	400 EGA Roof Cover	m2	14.26		
2.02	350x250x3mm galvanized iron sheet Gutter total development length 1065mm	ml	4.00		
2.03	200mm G-28 Storm water down pipe 160mm diamter PVC	ml	7.00		
Sub Total of B-2.....					
3.FINISHING					
3.1. FLOOR FINISH					
3.1.1	5cm thick cement screed flooring with out glass	m ²	14.26		
Sub Total of B-4.....					
5. PAINTING					
	a. to all steel elements with antirust prime paint and spary paint as per the aproved color	ls	1.00		
Sub Total of B-5.....					
Sub Total of B.....					
TOTAL SUMMARY					

Item No.	DESCRIPTION	UNIT	QTY.	RATE	TOTAL
8. ELECTRICAL WORKS					
SUPPLY AND INSTALL					
	1.00 DISTRIBUTION BOARDS				
	SUPPLY, INSTALL, TEST AND COMMISSIONING OF ALL ELECTRICAL SYSTEMS				
	Designed drawings and as built drawings for all systems.All Materials shall be 3 rd party certified with minimum of 2 years warranty. All Electrical System shall be installed , tasted and commisioned by certified professionals. All boards electrical system sahall bewired and tested as relevant national and international Resedential standards. All wiring shall conform to National Electrical Code. All distrbution boards needs to be type tested assembly.				
	lcu for 1ph MCB's is 6KA, and 3ph 10KA for				
	breakers				
	less than 63A/3ph				
1.0	DISTRIBUTION BOARDS				
1.10	Surface mounted main distribution board SDB-W2 (waiting area new construction), IP54 made of steel, including busbars of 32A rating coppe bus bar, earthing bar, neutral bar, all other connecting and fixing accessories, all wired to relevant IEC standard and consisting of :-				
	1 pc main MCB of 16A, 3ph, lcu=6KA .				
	2 pc MCB of 10A, 1ph, lcu=6KA .				
	2 pc MCB of 16A, 1ph, lcu=6KA .				
	1 pc factory made drawing pocket, Himel PP-A4 or equivalent. All complete with 10% reserve spaces.	No.	1.00		
1.20	Surface mounted main distribution board SDB-GF-2 (waiting area new construction), IP54 made of steel, including busbars of 32A rating coppe bus bar, earthing bar, neutral bar, all other connecting and fixing accessories, all wired to relevant IEC standard and consisting of :-				
	1 pc main MCB of 25A, 3ph, lcu=6KA .				
	5 pc MCB of 10A, 1ph, lcu=6KA .				
	3 pc MCB of 16A, 1ph, lcu=6KA .				
	1 pc factory made drawing pocket, Himel PP-A4 or equivalent. All complete with 10% reserve spaces.	No.	1.00		
1.30	Surface mounted main distribution board SDB-XR (waiting area new construction), IP54 made of steel, including busbars of 32A rating coppe bus bar, earthing bar, neutral bar, all other connecting and fixing accessories, all wired to relevant IEC standard and consisting of :-				
	1 pc main MCB of 20A, 3ph, lcu=6KA .				
	4 pc MCB of 10A, 1ph, lcu=6KA .				
	2 pc MCB of 16A, 1ph, lcu=6KA .				
	1 pc factory made drawing pocket, Himel PP-A4 or equivalent. All complete with 10% reserve spaces.	No.	1.00		
1.40	Surface mounted main distribution board SDB-XM1 (waiting area new construction), IP54 made of steel, including busbars of 200A rating coppe bus bar, earthing bar, neutral bar, all other connecting and fixing accessories, all wired to relevant IEC standard and consisting of :-				
	1 pc main MCCB of 150A, 3ph, lcu=15KA .				
	1 pc MCB of 150A, 1ph, lcu=15KA .				
	1 pc MCB of 16A, 1ph, lcu=6KA .				
	1 pc factory made drawing pocket, Himel PP-A4 or equivalent. All complete with 10% reserve spaces.	No.	1.00		
1.50	Surface mounted main distribution board SDB-XM2 (waiting area new construction), IP54 made of steel, including busbars of 100A rating coppe bus bar, earthing bar, neutral bar, all other connecting and fixing accessories, all wired to relevant IEC standard and consisting of :-				
	1 pc main MCCB of 80A, 3ph, lcu=15KA .				
	1 pc MCB of 80A, 1ph, lcu=15KA .				
	1 pc MCB of 16A, 1ph, lcu=6KA .				
	1 pc factory made drawing pocket, Himel PP-A4 or equivalent. All complete with 10% reserve spaces.	No.	1.00		

1.60	Surface mounted main distribution board SDB-GH (waiting area new construction), IP54 made of steel, including busbars of 32A rating copper bus bar, earthing bar, neutral bar, all other connecting and fixing accessories, all wired to relevant IEC standard and consisting of :- 1 pc main MCCB of 25A, 1ph, lcu=15KA . 6 pc MCB of 10A, 1ph, lcu=6KA . 1 pc MCB of 16A, 1ph, lcu=6KA . 1 pc factory made drawing pocket, Himel PP-A4 or equivalent. All complete with 10% reserve spaces.	No.	1.00		
2.00	SWITCHES IP 54,10A/1ph flush mounted with appropriate cover plate, frame and box. Note: use appropriate modular back box for concrete & masonry wall for light or gypsum wall.				
2.10	Flush mounting single switch	No.	97.00		
2.20	Flush mounting Double switch	No.	111.00		
2.30	Flush mounting Two way switch	No.	12.00		
3.00	SOCKET OUTLETS AND FLOOR BOX				
3.10		No.	2.00		
	10/16A / 1P flush mounted twin socket outlets fed through heavy duty PVC insulated conductors of 3 x 2.5 sq.mm inside PVC conduits of 25mm diameter including junction boxes with covers and insulating screw cap connectors. ,Unversal type				
3.20	10/16A / 1P flush mounted single socket outlets fed through heavy duty PVC insulated conductors of 3 x 2.5 sq.mm inside PVC conduits of 25mm diameter including junction boxes with covers and insulating screw cap connectors. ,Unversal type	No.	180.00		
3.30	10/16A / 1P flush mounted Shever socket outlets fed through heavy duty PVC insulated conductors of 3 x 2.5 sq.mm inside PVC conduits of 25mm diameter including junction boxes with covers and insulating screw cap connectors. ,Unversal type	No.	8.00		
3.40	Floor box flush mounted, 16A with stainless steel cover for concrete floor with all necessary cover for concrete floor with all necessary	No.	1.00		
	COMP FLOOR BOX C/W 2-POWER 4-DATA Compartment Connector Type A:Mains Socket, UK, Switched x 2 Connector Type B:BT Socket, x 4 External Depth:80mm External Length / Height:191mm External Width:215mm Voltage Rating VAC:240V , made from stainless steel				
3.60	Ditto but for wireless access points (height=2.2meter),Unversal type	No	7.00		
4.00	MATV SYSTEM NOTE: use modular back box GEWISS (GW24232) for concrete & masonry wall and GEWISS (24234) for light weight or gypsum wall or recommended type MATV equipment, supplied, installed, connected, tested and commissioned including coaxial cables, conduits and all necessary accessories, complete as manufactured by Triax, Televes (or approved equivalent).				
4.10	MATV points indoor coaxial cable of RG11 double shielded, 75ohm, inside heavy duty rigid PVC conduit of 20mm diameter from, taps to TV outlet at shown on drawings, including back box	No.	7.00		
4.20	MATV out door coaxial cable of RG11 double shielded, 75ohm, for external use and from splitter / amplifier to splitter as shown on the drawing	M	40.00		
4.30	TV-FM socket outlet GEWISS Eco 60 range cloud white range or approved equivalent flush mounted with appropriate cover plate frame and box, frequency range TV: % to 862MHz, FM: 5 to 862MHz	No.	7.00		
	TYPE OF LIGHT FITTINGS WITH LAMPS Note: all light fittings should have appropriate electric gear, lamps, mounting and other necessary accessories or equivalent				
5.00	LIGHT POINT Light points in medium duty rigid corrugated conduit of 16mm fed by PVC insulated copper cable of 3x2.5sq.mm.	No	813.00		

5.10	Light fittings and lamps (Specified type or equivalent)				
5.20	Type 1 Surface LED panel, 24W, square, 230VAC, 2200lm, 4000K	No.	253.00		
5.30	Type 2.Downlight LED slim recessed light 15w,1250lm	No.	137.00		
5.40	Type 3.Down light 10w LED Recessed type,10W 950lm	No.	99.00		
5.50	Type 4 RZB451210.009 + LED 2X36W,5500lm	No.	36.00		
5.60	Type 5.RZB551093.002.1 + LED,21W,1800lm	No.	99.00		
5.70	Type 6 RZB451168.002 .Q + LED,10W,910lm	No	83.00		
5.80	Type 7 Down light 24W 2000LM	NO	89.00		
5.90	Type 8 RZB311673.004 + LED 28W pendant type(Reception)	No	7.00		
5.11	Type 9 SUNMEIYI Luxury Crystal Chandeliers Lighting 18 Lights	NO	5.00		
5.12	Type 10 Modern 5-Light Chrome Chandelier 60w with Frosted Glass Shade, Contemporary Hanging Light Fixtures E26 Base	No	4.00		
5.13	Type 11 LED flat panel light 40W,4000lm 60x60xm	NO	8.00		
5.14	Type 12 Flat LED Outdoor Wall Light,6W,629lm	No	7.00		
	Outdoor light				
5.15	Type 13 Outdoor Wall Sconce Light 6000K LED Porch Lamps Matte Black Exterior Light Fixtures Wall Mount IP65 Waterproof	No	31.00		
5.16	Bollard LED light outdoor light 25W, 50000hrs 2500lm	No	24.00		
	Emergency light				
5.17	Model L121M; Operation Maintained/Non-maintained Input Voltage 220-240V 50/60Hz; Material PC cover, ABS casing Battery Ni-cd battery3.6V 1.8AH; Lamp Type 6pcs 5730 LED Model L121M; Operation Maintained/Non-maintained Battery Ni-cd battery3.6V 1.8AH Indicator Green LED--Charging Duration 3 hours IP Rate IP20 Charging time more than 24 hours Wattage 3w Wall Surface Green LED--Charging Duration 3 hours Charging time more than 24 hours Wattage 3w Wall Surface	No	29.00		
6.00	POWER CABLES				
	Power cables 0.4/1KV (NYY) & PVC Pipe the tentative measurement(the exact measurement to be determined on site)				
6.1	3x2.5sq.mm in pvc dia.16mm/cable tray/duct	ml	250.00		
6.2	3x4 sq.mm PVC dia.25mm/cable tray/duct	ml	100.00		
7.00	Additional PVC Pipes for tele ,power and data distribution				
7.10	Diameter 16mm(of tentative measurement)(1 pcs=4 meter)	Ls	25.00		
7.2	Diameter 32mm(of tentative measurement)(1 pc=4meter)	pcs	15.00		
7.3	Diameter 50mm(of tentative measurement), 1 pcs=3 meter)	pcs	50.00		

10.12	LIGHTNING PROTECTION				
	Lightning protection equipment, supplied, installed, connected, tested and commissioned including coaxial cables, conduits and all necessary accessories, complete as manufactured by Erico (or approved equivalent) and/or shown on drawings.				
10.12.1	16mm Copper Air terminal circular galvanized steel rod 1.0m length with Air Terminal Base and all necessary mounting accessories or recommended type.	No.	1.00		
10.12.2	Aluminium mast with U-bolts, guy ring, guy kit and all necessary accessories, 2 m	No.	1.00		
10.12.3	Down conductor (CU or Al) 50mm ² with upper and lower termination kits all complete. (<i>Two down conductor for each Air terminal</i>)	M	35.00		
10.12.4	Downconductor saddles	No	10.00		
10.12.5	Manhole (Earthing Pit) 60x60x60cms with double brick wall and removable cover.	No.	1.00		
10.12.6	Earthing rod diameter 16mm, 2400mm + radial copper tapes for lightning preventor, with rod coupler, rod to tape clamps, driving heads and all necessary accessories or equivalent.	No	4.00		
10.12.7	Exothermic welding or C-clamp to reinforcement bars of the building soffit (from foundation to roof of the building) to grounding rods through 1x50mm ² .	LS	1.00		
	CCTV POINTS				
7.40	CCTV video coax points with RJ45, or cat 6A or equivalent through heavy duty thermoplastic conduit of minimum diameter of 25mm, including junction boxes with covers and pulling guy wires inside conduits	No	6.00		
	CCTV SYSTEM COMPONENTS				
7.5	Out door camera of dome bullet type, Ethernet RJ 45, power supply is both PoE and DC 12V, bullet type or equivalent	No.	6.00		
TOTAL ELECTRICAL WORKS.....					