



LUTHERAN WORLD FEDERATION Kakuma Area Program

"TENDER FOR PROPOSED FOUR (4) NEW LABORATORIES FOR JUNIOR SECONDARY SCHOOLS IN KAKUMA"

TENDER NO .:

LWF/KAK/EDUC/36301/2023

LOCATION: Kakuma Refugee Camp

DATE OF ADVERTISEMENT:

15th November 2023

PRE-TENDER SITE VISIT DATE (COMPULSORY): 28th November 2023 – 1st December 2023

SUBMISSION DEADLINE: 13th December 2023 - 1700HRS

A. INVITATION TO TENDER

Lutheran World Federation (LWF) invites tenders from approved and reputable building works Contractors for the above works in Kakuma Refugee Camp.

B. INSTRUCTIONS TO TENDERERS.

- 1. General
 - 1.1 Tenderers shall include the following information and documents with their Tenders, unless otherwise stated:
 - (a) Copies of certificates of registration, and principal place of business
 - (b) Total monetary value of similar construction work performed for each of the last 2 years
 - (c) Experience in works of a similar nature and size for each of the last 2 years, and clients who may be contacted for further information on these contracts
 - (d) Major items of construction equipment owned
 - (e) Qualifications and experience of key site management and technical personnel proposed for the Contract:
 - (f) Bank statement or financial report for the past 6 months
 - 1.3 The Tenderer shall bear all costs associated with the preparation and submission of his/her tender, and LWF will in no case be responsible or liable for those costs.
 - 1.4 The Tenderer, at the Tenderer's own responsibility and risk, is encouraged to visit and examine the site of the works and its surroundings, and obtain all information that may be necessary for preparing the tender and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the Tenderer's own expense.
 - 1.5 The procurement entity's employees, committee members, board members and their relative (spouse and children) are not eligible to participate in the tender.
 - 1.6 The procuring entity shall allow the tenderer to review the tender document free of charge before purchase.

2. Tender Documents

- 2.1 The complete set of tender documents comprises the documents listed here below and any addenda issued in accordance with clause 2.4 here below: -
 - (a) These instructions to Tenderers
 - (b) Form of Tender
 - (c) Specifications
 - (d) Drawings
 - (e) Bills of Quantities/Schedule of Rates (whichever is applicable)
 - (f) Other materials required to be filled and submitted in accordance with these Instructions and Conditions

- 2.2 The Tenderer shall examine all instructions, forms and specifications in the tender documents. Failure to furnish all information required by the tender documents may result in rejection of his/her tender.
- 2.3 Prospective Tenderers making inquiries of the tendering documents may notify LWF in writing via email at least a week before the closure of the tender. The LWF will respond will respond to any request for clarification received earlier than five [5] days prior to the deadline for submission of tenders. Copies of LWF's response will be forwarded to all persons issued with tendering documents, including a description of the inquiry, but without identifying its source.
- 2.4 Before the deadline for submission of tenders, LWF may modify the tendering documents by issuing addenda. Any addendum thus issued shall be part of the tendering documents and shall be communicated in writing or by cable, telex or facsimile to all Tenderers. Prospective Tenderers shall acknowledge receipt of each addendum in writing to LWF.
- 2.5 To give prospective Tenderers reasonable time in which to take an addendum into account in preparing their tenders, LWF shall extend, as necessary, the deadline for submission of tenders in accordance with clause 4.5 here below.

3. Preparation of Tenders

- 3.1 All documents relating to the tender and any correspondence shall be in English language.
- 3.2 The tender submitted by the Tenderer shall comprise the following: -
 - (a) The Tender;
 - (b) Priced Bill of Quantities/Schedule of Rates for lump-sum Contracts
 - (c) Any other materials required to be completed and submitted by Tenderers.
- 3.3 The Tenderer shall fill in rates and prices for all items of the Works described in the Bill of Quantities/Schedule of Rates. Items for which no rate or price is entered by the Tenderer will not be paid for when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities/Schedule of Rates.
- 3.4 The rates and prices quoted by the Tenderer shall not be subject to any adjustment during the performance of the Contract.
- 3.5 The unit rates and prices shall be in Kenya Shillings.
- 3.6 Tenders shall remain valid for a period of 60 days from the date of submission. However, in exceptional circumstances, LWF may request that the Tenderers extend the period of validity for a specified additional period. The request and the Tenderers' responses shall be made in writing.
- 3.7 The Tenderer shall prepare one original of the documents comprising the tender documents as described in these Instructions to Tenderers.
- 3.8 The original shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign on behalf of the Tenderer. The person or persons signing the tender shall initial all pages of the tender where alterations or additions have been made.
- 3.9 Clarification of tenders shall be requested by the tenderer to be received by the procuring entity not later than 5 days prior to the deadline for submission of tenders.
- 3.10 The procuring entity shall reply to any clarifications sought by the tenderer within 3 days of receiving the request to enable the tenderer to make timely submission of its tender.

4. Submission of Tenders

- 4.1 The tender shall be duly filled and submitted in the Tender box at the **LWF Compound in Kakuma at the Administration block.**
- 4.2 Interested companies should submit their bids by 13th December 2023 not later than 1700 hrs.
- 4.3 Two separate sets of sealed tender documents; technical bid and financial bid, are to be submitted for the convenience of the evaluation committee.
- 4.4 The bidders shall fill them, seal and submit them in 2 separate envelopes addressed to the Procurement Committee.
- 4.5 On delivery, ensure that the envelopes are registered in the LWF reception office and dropped in the LWF Tender box located at the administration block, next to the finance office.
- 4.6 The tenderer shall not submit any alternative offers unless they are specifically required in the tender documents. Only one tender may be submitted by each tenderer. Any tenderer who fails to comply with this requirement will be disqualified.
- 4.7 Any tender received after the deadline for opening tenders will be returned to the tenderer un- opened.
- 4.8 LWF may extend the deadline for submission of tenders by issuing an amendment in accordance with sub-clause 2.5 in which case all rights and obligations of The Authority and the Tenderers previously subject to the original deadline will then be subject to the new deadline.

5. Tender Opening and Evaluation

- 5.1 The tenders will be opened after the closure of the bid by the tender opening committee. Tenderers are not expected to attend the opening and evaluation.
- 5.2 The Tenderers' names, the total amount of each tender and such other details as may be considered appropriate, will be announced at the opening by The Authority. Minutes of the tender opening, including the information disclosed to those present will also be prepared by LWF's procurement officer.
- 5.3 Information relating to the examination, clarification, evaluation and comparison of tenders and recommendations for the award of the Contract shall not be disclosed to Tenderers or any other persons not officially concerned with such process until the award to the successful Tenderer has been announced. Any effort by a Tenderer to influence LWF's officials, processing of tenders or award decisions may result in the rejection of his tender.
- 5.4 Tenders determined to be substantially responsive will be checked for any arithmetic errors. Errors will be corrected as follows:
 - (a) where there is a discrepancy between the amount in figures and the amount in words, the amount in words will prevail; and
 - (b) where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will prevail, unless in the opinion of LWF's representative, there is an obvious typographical error, in which case the adjustment will be made to the entry containing that error.
 - In the event of a discrepancy between the tender amount as stated in the Form of Tender and the corrected tender figure in the main summary of the Bill of Quantities/Quotation, the amount as stated in the Form of Tender shall prevail. The Error Correction Factor shall be computed by expressing the difference between the tender amount and the corrected tender sum as a percentage of the Corrected Builder's Work (i.e. corrected tender sum less P.C. and Provisional Sums).
 - (e) The Error Correction Factor shall be applied to all Builders' Work (as a rebate or addition as the case may be) for the purposes of valuations for Interim Certificates and valuation of variations.

(f)	The amount stated in the tender will be adjusted in accordance with the above procedure for the correction of errors and with concurrence of the Tenderer, shall

be considered as binding upon the Tenderer. If the Tenderer does not accept the corrected amount, the tender may be rejected and the Tender Security forfeited.

- 5.5 The tender evaluation committee shall evaluate the tender within 14 days of the validity period from the date of opening the tender.
- 5.7 Where contract price variation is allowed, the valuation shall not exceed 15% of the original contract price.
- 5.8 Price variation requests shall be processed by the procuring entity within 30 days of receiving the request.
- 5.9 Preference where allowed in the evaluation of tenders shall not exceed 15%
- 5.10 To assist in the examination, evaluation, and comparison of tenders, LWF at its discretion, may request [in writing] any Tenderer for clarification of the tender, including breakdowns of unit rates. The request for clarification and the response shall be via email but no change in the tender price or substance of the tender shall be sought, offered or permitted.
- 5.11 The Tenderer shall not influence LWF on any matter relating to the tender from the time of the tender opening to the time the Contract is awarded. Any effort by the Tenderer to influence LWF or his employees in his decision on tender evaluation, tender comparison or Contract award may result in the rejection of the tender.

6. Award of Contract

- 6.1 The award of the Contract will be made to the Tenderer who has offered the *best* evaluated tender price.
- 6.2 Notwithstanding the provisions of clause 6.1 above, LWF reserves the right to accept or reject any tender and to cancel the tendering process and reject all tenders at any time prior to the award of Contract without thereby incurring any liability to the affected Tenderer or Tenderers or any obligation to inform the affected Tenderer or Tenderers of the grounds for the action.
- 6.3 The Tenderer whose tender has been accepted will be contacted via phone and email and enter into written contract.
- 6.4 The Contract Agreement will incorporate all agreements between LWF and the successful Tenderer. It will be signed by LWF and sent to the successful Tenderer, within 10 days following the notification of award. Within 5 days of receipt, the successful Tenderer will sign the Agreement and return it to The Authority.
- 6.5 The procuring entity may at any time terminate procurement proceedings before contract award and shall not be liable to any person for the termination.
- 6.6 The procuring entity shall give prompt notice of the termination to the tenderers and on request give its reasons for termination within 7 days of receiving the request from any tenderer.

7 Corrupt and fraudulent practices

- 7.1 The procuring entity requires that the tenderer observes the highest standard of ethics during the procurement process and execution of the contract. A tenderer shall sign a declaration that he has not and will not be involved in corrupt and fraudulent practices.
- 7.2 The procuring entity will reject a tender if it determines that the tenderer recommended for award has engaged in corrupt and fraudulent practices in competing for the contract in question.
- 7.3 Further a tenderer who is found to have indulged in corrupt and fraudulent practices risks being debarred from participating in public procurement in Kenya.

C. EVALUATION

i) Evaluation Criteria

The tender document submitted will be evaluated in three (3) stages; - General Mandatory, Technical Capacity and Financial. The evaluation process will be in stages as follows: -

- 1. General Mandatory Pass/Fail
- 2. Technical Capacity Evaluation- Pass mark of 70%
- 3. Financial Lowest Cost Evaluated bidder

ii) Mandatory Evaluation

The bids shall undergo a general pre-qualification process in order to determine bid compliance to the following mandatory requirements. Tenderers are required to comply to the following requirements, failure to which the firm shall not proceed with the next stage of evaluation: -

NO.	REQUIREMENTS	Pass	Fail
M1	a) Certificate of Registration/Incorporation		
M2	b) Valid Tax Compliance Certificate		
M3	c) Copy of CR12 Certificate showing names and citizenship of directors and shareholding		
M4	Dully filled, signed and stamped business questionnaire		
M5	Dully filled, signed and stamped Form of Tender		

Failure to submit any of the above-mentioned documentation, will lead to disqualification of the firm at the mandatory stage. The bidders that will meet all the mandatory requirements above will qualify to proceed to technical evaluation stage.

iii) Technical Evaluation

ITEM REQUIRED	DETAILS OF ATTACHMENT REQUIRED	
A: TECHNICAL EVALUATION	1	60%
	Certificate of incorporation	5%
1.) BUSINESS REGISTRATION	CR12	5%
(20%)	VAT and Tax compliance certificate-Valid	5%
	NCA Registration (NCA 6 or 7)	5%
2.)PAST EXPERIENCE (20%)	5 Previous relevant jobs with evidence: signed completion certificate, Purchase order, Construction Agreement, Photographs (4 marks each)	20%
	Name, Title and qualification of supervisor with construction certificate	4%
3.)PERSONNEL (16%)	Name, Title and qualification of foreman with construction certificate	4%
	copies of CV, 2 cetificates from recognised institutions (min. 2)	8%
4.)BANK ACCOUNT (18%)	6 months Authenticated bank statements (3% for each month)	18%
- A-1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Name 4 relevan Equipment (1% each)	4%
5.)PLANT & EQUIP. (16%)	Proof of ownership (Logbook, Receipt, or Lease - 3% each)	12%
7.)TIME COMMITMENT (10%)	Work Plan	10%
	1	(= Total x 60%)
B: FINANCIAL EVALUATION:	Priced BoQ	40%

Bidder (s) are required to attain minimum of 60% score in the technical requirements, failure to which the firm shall not proceed to the next stage of financial evaluation stage.

iv) Financial Evaluation

The bids that qualify at the Technical Capacity evaluation stage will be subjected to financial evaluation to determine the winner. The lowest evaluated bidder will be considered for award of tender.

The score for the Financial Evaluation is 40%.

FORM OF TENDER

_			[Name of Emp	loyer)	[Date]
_			[Name of Con	tract]	
D	ear Sir,				
Q co	uantities f onstruct, i	or the executinstall and com	on of the above-nar	med Works, we, nd remedy any o	s, Drawings and Bills of the undersigned offer to defects therein for the gures]
K	enya Shilli	ngs			[Amount in words]
re	easonably po complete	possible after t the whole of	the receipt of the Pr	oject Manager's	the Works as soon as is notice to commence, and ct within the time stated
			s tender until nd may be accepted		<i>_[Insert date]</i> , and it shall fore that date.
					this tender together with ontract between us.
	/e underst eceive.	and that you	are not bound to a	ccept the lowes	t or any tender you may
D	ated this_		day of	2022	
Si	ignature		in the capacity	of	
D	uly author	ized to sign te	enders for and on be		f Employer]
of	f				of Employer]
W	/itness;	Name			
		Address			_
		Signature			
		Doto			

TENDER BUSINESS QUESTIONNAIRE

Please fill in block letters.

Full names of tenderer 1. 2. Full address of tenderer to which tender correspondence is to be sent (unless an agent has been appointed below) Telephone number (s) of tenderer 3. Email address of tenderer 4. 5. Name of tenderer's representative to be contacted on matters of the tender during the tender period Signature of Tenderer





LUTHERAN WORLD FEDERATION

Bills of Quantities & Drawings

Kakuma Area Program

For the

"TENDER FOR PROPOSED FOUR (4) NEW LABORATORIES FOR JUNIOR SECONDARY SCHOOLS IN KAKUMA"

TENDER NO.: LWF/KAK/EDUC/36301/2023

LOCATION: Kakuma Refugee Camp

SUBMISSION DEADLINE: 13th December 2023 - 1700HRS

	Project: Proposed New stand alone Laboratory for JSS in Dadaab & Kakuma						
ITEM	DESCRIPTI ON	UNI T	QTY	RATE (KES)	AMOUNT (KES)		
	BILL No. 1: SUBSTUCTURES (ALL PROVISIONAL) EXCAVATION AND EARTHWORKS BILL No. 1: SITE PREPARATION Clearing site vegetation; grubbing up roots and filling up voids left with selected materials						
1.1	Bushes ,shrubs, undergrowth or the like and cart away from site	250	SM				
1.2	EXCAVATION Excavate in soft material to remove top vegetable soil, average 200mm deep starting from existing ground level; load and cart away from site	250	SM				
1.3	Excavate in soft material for column bases, not exceeding 1.5m deep starting from stripped level	35	СМ				
1.4	Excavating trenches; to receive foundations starting from reduced level Not exceeding 1.5m deep	90	СМ				
1.5	Breaking out existing materials; extra over all kinds of excavations irrespective of depth Excavate pits for pier bases 600mmx600mmx200mm starting from stripped level n.e. 1.5m deep	2	СМ				
1.6	DISPOSAL Excavated materials; Backfilling depositing and compacting in layers maximum 150mm thick	70	СМ				
1.7	FILLING BACKFILLING Return, fill in and ram selected excavated material around foundations	50	СМ				
1.8	HARDCORE 300mm thick depositing and compacting in layers maximum 150mm thick in making up levels	50	СМ				
1.9	50mm Thick quarry dust blinding to surfaces of hardcore (Measured Separately)	172	SM				

RILL	OF	m	$I\Delta NIT$	TTIES	FOR 1

Carried to collection -

Project:

Proposed New stand alone Laboratory for JSS in Dadaab & Kakuma



					FEDERATION actalliance
ITEM	DESCRIPTI ON	UNI T	QTY	RATE (KES)	AMOUNT (KES)
	ANTI-TERMITE AND HERBICIDE TREATMENT				
	Apply "termidor 25 EC" solutions or other equal and approved sprayed evenly				
1.10	To surface of fill and tops of foundation wall	172	SM		
	CONCRETE WORK INSITU CONCRETE: REINFORCEMENT. Plain concrete class 15 (mix 1:3:6)				
1.10	50mm Thick surface blinding; under bases	1	СМ		
1.11	Ditto; under strip footings	5	СМ		
	Normal: class 20/20mm) vibrated (1:2:4) as described in				
1.12	Strip foundations (600mmx200mm)	13	СМ		
1.13	100mm thick ground floor slab	18	СМ		
1.14	Column Bases	3	СМ		
1.15	Concrete ramps	1.5	СМ		
1.16	300mmx200mm ground beam	5	СМ		
	REINFORCEMENT Supply and fix bars reinforcement including bending hooks, typing wire, cutting spacers and supporting all in position as described				
1.17	10mm Diameter bars in foundation strip	900	KG		
1.18	12mm bars in ground beam	500	KG		
1.19	8mm bars for ground beam links	200	KG		
1.20	fabrics B.S 4483 Reference No A 142; mesh 200X200mm weight 2.22kgper square meter (including laps, typing wire spacer blocks in location measured net)	172	SM		
	Carried to collection				-

	Project: Proposed New stand alone Laboratory for JSS in D	o & Kak	kuma	THE LUTHERAN WORLD FEDERATION actalliance	
ITEM	DESCRIPTI ON	UNI T	QTY	RATE (KES)	AMOUNT (KES)
1.21	SAWN FORMWORK TO INSITU CONRETE AS DESCRIBED Vertical sides of column	25	SM		
1.22	bases Vertical sides of	30	SM		
1.23	column stubs Sides of strip	70	SM		
1.24	footing	70	LM		
1.25	Edges of the floor bed 75 to 150mm	35	LM		
	wide Sloping edges of ramp, 75 to				
1.26	150mm girth	218	SM		
	FOUNDATION WALLING 200mm thick approved natural stone; roughly squared, equal approved plastic sheet laid over mortar (1:4) enforces with hoop iron 500 gauge in every alternate course.				
1.27	DAMP PROOF MEMBRANES Polythene, 1000 gauge, or other equal and approved plastic sheet laid over blinding (measured separately-allow for laps) Horizontal 1No of layer(s) over 300mm wide	200	SM		
1.28	PLINTH AREA FINISHES Render cement and sand (1:3) wood floated	30	SM		
1.29	12mm thick cement and sand to concrete or blockwork base (m/s) general external	30	SM		
	Prepare and apply 3 coats of bituminous paint to plastered plinths				
	Total Carried to Summary				
	Brought forward from page				
	1 Brought forward from				
	page 2 From above				
	TOTAL SUBSTRUCTURE CARRIED TO SUMMARY				-

	Project: Proposed New stand alone Laboratory for JSS in D	kuma	THE LUTHERAN WORLD FEDERATION actalliance		
ITEM	DESCRIPTI ON	UNI T	QTY	RATE (KES)	AMOUNT (KES)
	BILL NO. 2: REINFORCED CONCRETE FRAME				
	Vibrated reinforced concrete (1:2:4)class 20/20mm as				
2.1	described Ring beams	8	СМ		
2.3	Columns size 200x200mm	4	СМ		
	REINFORCEMENT High yield steel deformed bar; cold worked B:S 4449 including bends, hooks,tying wire, distance blocks and spacers in position				
2.5	8mm diameter stirrups @ 200 mm centers to ring beams and columns	400	KG		
2.6	12mm diameter in ring beams, columns and column	550	KG		
2.7	bases. 16mm diameter in columns	70	KG		
	SAWN FORMWORK TO INSITU CONCRETE				
2.7	Horizontal soffits of the ring beam	45	SM		
2.8	Sides of ring beam and column	20	SM		
	TOTAL REINFORCED CONCRETE CARRIED TO SUMMARY				

	Project: Proposed New stand alone Laboratory for JSS in D)adaa	b & Kal	kuma	THE LUTHERAN WORLD FEDERATION actalliance
ITEM	DESCRIPTI ON	UNI T	QTY	RATE (KES)	AMOUNT (KES)
	BILL NO. 3: WALLING				
	Walling; Natural stonework or blockwork				
	Approved local stone Squared, fine chisel dressed on one side bedded jointed and horizontal recessed key pointing on one side in cement sand (1:4) as work proceeds				
3.1	Walls 200mm thick reinforced with hoop iron gauge 500 in every alternate course	160	SM		
	DAMP PROOF COURSES B.S 743, Type A, bitumen hessian base 150mm, no allowances made for laps				
3.2	200mm wide bedded in cement mortar (1:3)	70	LM		
	TOTAL WALLING CARRIED TO SUMMARY				

	Project:				A Bo THE
	Proposed New stand alone Laboratory for JSS in D	adaal	o & Kal	kuma	LUTHERAN WORLD FEDERATION actalliance
ITEM	DESCRIPTI ON	UNI T	QTY	RATE (KES)	AMOUNT (KES)
	BILL NO. 4: ROOFING				
	ROOF COVERING				
4.1	Gauge 28 pre-painted box profile Blue G.C.I roofing sheets fixed to purlins (measured separately)				
	pullins (measured separatery)	190	SM		
4.2	Gauge 28 pre-painted ridge ship cap	17	LM		
	CARPENTRY				
	STRUCTURAL TIMBERS Wrot cypress prime grade (treated with wood preservative)				
4.3	75x50mm purlins	190	LM		
4.4	100x50mm wall plate bedded in cement :sand (1:3) mortar bolted to	84	LM		
	concrete with and including 16mm dimeter bolts cast in concrete at				
	1000mm centers (Refer to drawings)				
4.5	100x50mm Tie or Strut	105	LM		
4.6	100x50mm Rafters	160	LM		
4.7	Ditto tie beam	95	LM		
4.8	Ditto king post	45	LM		
4.9	200x25mm fascia board and barge board	60	LM		
	Fittings and fastenings				
4.9	Straps	100	NO		
4.9	Bolts	320	NO		
	TOTAL FOR ROOFING CARRIED TO SUMMARY				

Project:

Proposed New stand alone Laboratory for JSS in Dadaab & Kakuma



	Proposed New Stand alone Laboratory for 355 in L	WORLD FEDERATION actalliance			
ITEM	DESCRIPTI ON	UNI T	QTY	RATE (KES)	AMOUNT (KES)
	BILL NO. 5: WINDOWS AND CABINETRY All windows to be supplied and fixed as per the details and schedule provided. All iron Mongery and glazing shall be priced together with the corresponding window. All iron mongery sample to be provided for approval before final installation Supply and fix the following purpose-made steel casement windows in 50x50x3mm RHS framing rawl bolted to walls and 40x30x3mm 'T' section casements; complete with pin type hinges and locks, brass fasteners and stays where indicated on the schedules; 6mm thick clear/obscure glazing in sub-divided glass panes; prepare and apply one coat shop primer before fixing; all to Engineer's details and				
5.1	approval Window overall size 1800 mm wide x 1500 mm high; comprising 1 No. fixed grilled panel overall size 600 mm wide x 1500mm high and 2no. Side hung panes overall size 600 mm wide x1500mm high	6	NO		
5.2	Window overall size 900 mm wide x 1500 mm high; comprising 2no. Side hung panes overall size 450 mm wide x1500mm high	2	NO		
5.3	Window overall size 600 mm wide x 1500 mm high; comprising 2no. Side hung panes overall size 300 mm wide x1500mm high	3	NO		
5.5	Steel louvre vents Supply and fix the following purpose-made steel vent windows in 50x50x3mm RHS framing rawl bolted to walls and 40x30x3mm T' section casements; complete with mosquito gauze internally; prepare and apply one coat shop primer before fixing; all to Architect's details and approval Steel vent windows overall size 600 mm wide x 600 mm high; BUILDING FIXTURES AND FITTINGS 100mm thick in-situ mass concrete class 15/40 (1:3:6) plinths built onto floors; all necessary formwork; 12mm thick cement and sand (1:3) backing to top and edges all to approval; in:-	1	NO		

BILL OF QUANTITIES FOR 1

5.6	Plinths; under storage cabinets and benches	1	СМ	
	Carried to collection			

	Project:				42
	Proposed New stand alone Laboratory for JSS in D	adaal	o & Kal	kuma	THE LUTHERAN WORLD FEDERATION actalliance
ITEM	DESCRIPTI ON	UNI T	QTY	RATE (KES)	AMOUNT (KES)
	50mm thick reinforced in-situ concrete class 20/20 (1:2:4) suspended slab built into walling; all necessary formwork, boxing for sink; 8mm high tensile hot rolled steel reinforcement bars to BS 4449; plastered and painted soffits; plastered and painted 100mm thick support walls; 12mm thick cement and sand (1:3)backing to				
5.7	top and fascia/skirting; in:- Storage tops	1	СМ		
5.8	Teacher's preparation worktop	0.1	СМ		
5.9	Laboratory worktops/benches	2.5	СМ		
	Ceramic tiles Ceramic tiles finish on worktops including fascia's and skirtings; applied as per manufacturer's instructions; all to engineer's details and approval; in:-				
5.1	Teacher's preparation worktop	2	SM		
5.11	Laboratory worktops/benches	20	SM		
5.12	Joinery: Fire Extinguisher cabinet Supply materials, construct and hoist high level Fire Extinguisher cabinet, overall size 1200x600x900mm high; comprising of 2No- 600x900mm high 6mm thick MS plated doors with 370x 700mm high 5mm thick clear glass panel; including 30x30x3mm thick RHS framing. Include all necessary iron mongery and 38mm diameter hardwood knob fixed to each door. Prepare and apply gloss oil paint to metal surfaces.(Refer to drawings for further details) Laboratory Desks and seats Desks. Top timber should be 1 inch thick, made from Grevillea wood with wood finish and varnished. It should have a Mild steel frame of 2 inch square tube of 18 gauge, and fully powder coated (dark colored texture or silver color). 60 x 40 mm rubber/plastic shoes	6	NO		
	should be fixed in structure footing. All corners and edges of top should be chamfered properly sanded, finished with wooden primer and synthetic clear varnish as per the material used for making top. (Refer to drawings for further details)				

BILL OF QUANTITIES FOR 1

5.14	Laboratory benches (Refer to drawings for further details)	50	NO	
	Carried to collection			

	Project: Proposed New stand alone Laboratory for JSS in D	kuma	THE LUTHERAN WORLD FEDERATION actallance		
ITEM	DESCRIPTI ON	UNI T	QTY	RATE (KES)	AMOUNT (KES)
5.20	PAINTING AND DECORATION Prepare touch up primer and apply one under coat of grey rust inhibiting paint and two finishing coats of gloss crown paints or equal approved Window surfaces over 300mm girth internal	65	SM		
	Carried to collection				
	COLLECTION Brought forward from page 7 Brought forward from page 8 From above				
	TOTAL FOR WINDOWS AND CABINETRY CARRIED TO SUMMARY				

	Project: Proposed New stand alone Laboratory for JSS in D	Dadaal	b & Kal	kuma	THE LUTHERAN WORLD FEDERATION actalliance
ITEM	DESCRIPTI ON	UNI T	QTY	RATE (KES)	AMOUNT (KES)
6.1 6.2 6.2	BILL NO. 6: DOORS STEEL DOORS Standard double opening frames 25mm x25mmx3mm, 18G MS Plate cover and 40mmx40mmx3mm external frame door complete with all necessary iron mongery, permanent vent with mosquito gauze & sheet hood assembled and fixed to opening including cutting and pinning to concrete or blockwork surround and bedding frame in cement sand (1:4) all primed with red oxide before fixing (see attached drawing)	2 2 1	NO NO NO		
6.3	Overall size 1000x2400mm external doors Double door 1500x2400mm external doors Double door 1500x1000mm external doors Supply and fix 900 mm high balustrading fabricated from 2mm thick mild steel sections; comprising of 50 mm diameter mild steel handrail welded to vertical balusters; 2 No. 15mm diameter intermediate round bar rails welded to 35mm dia vertical balusters at approximately 200mm centers; and fixed at the bottom to 2 No. raw bolts grouted into concrete or masonry (m.s);all necessary welding and grinding welds smooth; including priming with red oxide primer before fixing; All to Architect's detail and approval	27	M SM		
6.5 6.6 6.7	Prepare and apply two undercoats of grey oxide and two finishing coats of approved premium quality metal oil paint Railing and balustrading [both sides measured flat] DOORS Notes 1. All doors to be supplied and fixed as per the details and schedule provided. All iron Mongery and glazing shall be priced together with the corresponding door. All iron mongery and door sample to be provided for approval before final installation Door frames, Architraves etc. Door frames with two labors plugged, size 150x50mm	12 12 12	M M M		

ı	10	BILL OF QUANTITIES F	OR 1	1	•	1
	Quadrant beading, size 20mm					
		Carried to collection				

	Project: Proposed New stand alone Laboratory for JSS in E)adaa	h & Kal	auma	THE LUTHERAN
	1 Toposed New Stand alone Easoratory for 600 in E	vama	WORLD FEDERATION actalliance		
ITEM	DESCRIPTI ON	UNI T	QTY	RATE (KES)	AMOUNT (KES)
6.8	Timber doors Supply and fix into position 48mm Thick solid core door; hardwood lipping all edges; including 900x300mm fanlight infilled with 6mm clear glass; solid blocking for ironmongery; ironmongery as per UNION-ASSA ABLOY catalogue or other approved equivalent; All to Architect's approval and detail drawings Single door overall size 900x2400mm high	2	NO		
6.9 6.10	Painting and Decorations for wooden doors Prepare and apply one coat of aluminum wood primer before fixing on woodwork to:- Back of wood not exceeding 100mm girth Ditto but over 100mm but not exceeding 200mm girth	20 20	M M		
6.11 6.12 6.12	Prepare and apply two coats of matt polyurethane varnish to 'Crown' paints or equal and approved :- Wood surfaces, not exceeding 200 to 300mm girth Ditto, 200 to 300mm girth General surfaces	40 20 12	M M SM		
6.13	PAINTING TO STEEL DOORS Prepare touch up primer and apply two under coats of grey rust inhibiting paint and two finishing coats of gloss oil paint Door surfaces, both sides measured flat	17	SM		
	Carried to collection				
	COLLECTION Brought forward from page 10				
	From above				
	TOTAL DOORS, RAILS AND PAINTING CARRIED TO SUMMARY				

	Project:				A Bo THE
	Proposed New stand alone Laboratory for JSS in Dada	na	LUTHERAN WORLD FEDERATION actalliance		
ITEM	DESCRIPTION	UNI T	QTY	RATE (KES)	AMOUNT (KES)
	BILL NO. 7: FINISHES				
	Note: Contractor to provide all samples for approval before incorporation into the final works.				
7.1	FLOOR AND WALL FINISHES 25mm thick colored cement sand (1:4) m/s	140	SM		
7.2	WALLS 12mm thick ,2NO. Coat work plaster 1:3:6: to concrete or block work base (m/s) generally, walls internal steel trowelled	250	SM		
7.3	Key pointing to external wall surface as described	160	SM		
7.4	15mm thick 2 NO coat work cement sand (1:4) render to concrete or blockwork base externally including columns and eaves	50	SM		
7.5 7.6	PAINTING AND DECORATION THREE COATS PVA BASED EMULSION PAINT TO CROWN PAINTS OR EQUAL AND APPROVED Supply and apply approved quality undercoat and 3 coats of soft white Emulsion paint , (quality crown SUPER PREMIUM GRADE silk vinyl soft-white).Rendered wall surfaces	120 160	SM SM		
7.7	Externally and eaves Supply and apply approved quality undercoat and 3 coats of soft white Emulsion paint , (quality crown SUPER PREMIUM GRADE silk vinyl soft-white). Plastered wall surfaces Internally	16	SM		
7.8	Supply, prepare and apply approved quality undercoat and 3 coats of approved premium super gloss paint as "crown" or any other equal and approved paint to columns and beam, external.	30	SM		
7.9	Supply and apply quality 3 coats of approved premium super gloss bituminous paint to all 200mm skirtings (both internal and external)	1	NO		
	PRIME COSTS AND PROVISIONAL SUMS Allow for introduction of blackboard size 5x1.2m and properly finished with blackboard paint, 2 per class (note the board on the front section will be molded 15mm thick from the wall surface)				
	TOTAL FINISHES CARRIED TO SUMMARY				

	Project: Proposed New stand alone Laboratory for JSS in Dad	na	THE LUTHERAN WORLD FEDERATION actalliance		
ITEM	DESCRIPTI ON	UNI T	QTY	RATE (KES)	AMOUNT (KES)
	INSTALLATIONS SANITARY FITTINGS Supply, deliver and install the following appliances including their support brackets, screws etc. Where necessary items such as mastic, silicon, grouting etc. must be included in the rates. All connections to water supply, waste/soil drainage and electrical power supply are to be the responsibility of the contractor and must be priced for.				
8.1	Laboratory Sink "Vulcathene" code V260420 chemical resistant laboratory sink, size 445x342x140mm complete with undercounter mounting accessories	11	NO		
8.2	Valtrex Lab line" Ref VG 810078 or approved equivalent bench mounted laboratory mixer tap with swivel swanneck, wrist action levers and aerator	11	NO		
8.3	"Vulcathene" Ref. 504 1½" slotted waste, 60 mm diameter flange, 102 mm long shank, with two waste gaskets to suit Vulcathene sink outlet	11	NO		
8.4	Vulcathene code W561 or equal and approved 40mm ant syphon bottle trap complete with waste and accessories	11	NO		
8.5	Dilution Recovery Trap "Vulcathene" or equal and approved model W612 under sink mounted dilution trap of capacity 2.3 Liters. Dilution trap to be complete with inlet connection to upstream pipework, outlet connection with adaptor for connection to downstream UPVC pipework as well as bolted cover.	11	NO		
8.6	Allow for a circular Drip Cup molded with an internal grating and complete with backnut. As Vulcathene Ref. No. 50 or equal and approved equivalent		NO		
8.7 8.8 8.9	INTERNAL PLUMBING (COLD WATER) 1000 L plastic water tank in the ceiling as Kentank or equivalent Water booster pump as Pedrollo Pkm60 pump or equivalent Automatic pump controller as Pedrollo or equivalent	1 1 1	NO NO NO		
	Carried to collection				

	Project:				A Bo THE
	Proposed New stand alone Laboratory for JSS in D	adaal	b & Kal	kuma	LUTHERAN WORLD FEDERATION
					actalliance
ITEM	DESCRIPTI ON	UNI T	QTY	RATE (KES)	AMOUNT (KES)
	Supply, deliver and install plastic PP-R 80 PN 16 pipes to	-		(1120)	(1120)
	specs. Tenderers must allow in their pipework prices for all				
	the couplings, connectors, unions, nipples, sockets, end caps,				
	bridges, expansion loops, jointing materials etc. as required in				
	the running lengths of pipework and also where necessary,				
	for pipe fixing clips, collars, holderbats plugged and screwed,				
	and pipe sleeves through structural members.				
8.10	15 mm diameter PPR-PN 16 pipe. 20 mm diameter PPR-PN 16 pipe	25	LM		
0.11	25 mm diameter PPR-PN 16 pipe	35	LM		
8.12	32 mm diameter PPR-PN 16 pipe	20	LM		
8.13	50 mm diameter PPR-PN 16 pipe	12	LM		
8.14	30 mm diameter i i i i i i i i i pipe	30	LM		
	Extra Over PP-R fittings as				
0.45	follows:- 15 mm outer diameter	20	NO		
8.15 8.16	elbow, 90°/45° 20 mm ditto	36 5	NO NO		
8.17	25 mm ditto	2	NO		
8.18	32 mm ditto	1	NO		
8.19	50 mm ditto	1	NO		
8.20	20mm outer diameter equal tee	15	NO		
8.21	25mm ditto	2	NO		
8.22	20x15mm outer diameter PP-R reducing	20	NO		
8.23	piece. 25x20mm ditto	1	NO		
8.24	25x15mm ditto 50x32mm ditto	2	NO		
8.25	20mm x ½" diameter PP-R male/female transition piece	1	NO		
	round/hexagonal.				
8.26	25mm x 3/4" ditto	3	NO		
8.27	32mm x 1" ditto	1	NO		
8.28	50mm x 1¼"	1	NO		
8.29	ditto Gate	1	NO		
	Valves				
	25 mm diameter high pressure screw-down full way non-rising				
	stem, solid wedge disc "Pegler" gate valve (PN 16) with wheel				
0.20	head and joints to steel tubing complete with matching diameter	2	NO		
8.30 8.31	GMS union.	2 2	NO		
	32mm diameter	1	NO		
0.02	32mm diameter ditto 50mm	'			
	diameter ditto Non-				
8.33	return valves	1	NO		
	50mm diameter BS 5154 Series B non-return valve, PN25	1	NO		
	pressure rating. To be as "Pegler" or equal and approved	1	NO		
	32mm ditto				
8.37	25mm ditto	2	NO		
	Stand pipe				
	tap				
	Cobra Watertech 15mm diameter heavy duty rough brass hose				
	bib tap with hose union complete with 1200mm long GMS				
	standpipe.				
	Carried to collection				

Valve Chamber 300x300x400mm deep concrete valve chamber complete with cover to the satisfaction of the Civil Engineer LABORATORY DRAINAGE Supply, deliver and install plastic Vulcathene pipework manufactured from co-polymer polypropylene with 3% carbon black. ultra violet stabilizer according with BS EN ISO 9001. Where necessary items such as mastic, silicon, grouting etc. must be included in the rates. All connections to the dilution tanks are to be the responsibility of the contractor and must be priced for. "Vulcathene code W001" or equal and approved Laboratory Waste System Pipework 40m diameter waste pipe 114 M 40m diameter waste pipe 115 M 100mm ditto 100mm ditto 100mm ditto 1100x50mm diameter 90"135" Sweep 117 NO 100x50mm diameter 90"135" Sweep Tee 118 NO 119 NO 110x50mm diameter 90"135" Sweep Tee 119 NO 110x50mm diameter 90"135" Sweep Tee 117 NO 118 NO 119 NO 110x50mm diameter Socket 117 NO 110x50mm diameter Socket 117 NO 118 NO 119 NO 110 NO 110 NO 110 NO 110 NO 111 NO 111 NO 112 NO 113 NO 114 M 115 NO 115 NO 116 NO 117 NO 118 NO 119 NO 119 NO 110 NO 110 NO 110 NO 110 NO 111 NO 111 NO 111 NO 112 NO 113 NO 114 NO 115 NO 115 NO 115 NO 116 NO 117 NO 117 NO 118 NO 119 NO 119 NO 110 NO 110 NO 110 NO 110 NO 111 NO 111 NO 111 NO 111 NO 112 NO 113 NO 114 NO 115 NO 115 NO 115 NO 116 NO 117 NO 117 NO 118 NO 118 NO 119		Project: Proposed New stand alone Laboratory for JSS in Dadaab & Kakuma					
8.38 300x300x400mm deep concrete valve chamber complete with cover to the satisfaction of the Civil Engineer LABORATORY DRAINAGE Supply, deliver and install plastic Vulcathene pipework manufactured from co-polymer polypropylene with 3% carbon-black. ultra violet stabilizer according with BS EN ISO 9001. Where-necessary items such as mastic, silicon, grouting etc. must be included in the rates. All connections to the dilution tanks are to be. the responsibility of the contractor and must be priced for. "Vulcathene code W001" or equal and approved Laboratory Waste System Pipework 3.40 40mm diameter waste pipe 4.41 50 mm ditto 100mm ditto 100mm ditto 115 M 100mm diameter 90"/135" Sweep 17 NO 440m diameter 90"/135" Sweep 17 NO 440m diameter 90"/135" Sweep 17 NO 4545 100x50mm diameter 90"/135" Sweep Tee 17 NO 4646 40mm diameter equal Sweep Tee 17 NO 47 50 x dbm diameter Socket 48 Reducer 50 mm ditto 17 NO 88.49 Plug 18 Reducer 50 mm ditto 17 NO 88.50 50 mm ditto 18 Carbon Diameter Line Coupler 50mm ditto 8.51 LABORATORY DRAINAGE 450 mm x 600 mm masonry manholes complete with medium 8.52 duty cast iron cover and frame to BS 497 and 556 (Refer to 20 M Somm diameter socket	ITEM		_	QTY		AMOUNT (KES)	
cover to the satisfaction of the Civil Engineer LABORATORY DRAINAGE Supply, deliver and install plastic Vulcathene pipework manufactured from co-polymer polypropylene with 3% carbon black ultra violet stabilizer according with BS EN ISO 9001. Where necessary items such as mastic, silicon, grouting etc. must be included in the rates. All connections to the dilution tanks are to be. "Vulcathene code W001" or equal and approved Laboratory Waste System Pipework 4.4 domm diameter waste pipe 50 mm ditto 100mm ditto 110mm ditto 120mm ditto 120mm diameter 90°/135° Sweep 170m down diameter 90°/135° Sweep 170m diameter 90°/135° Sweep 170m diameter 90°/135° Sweep Tee 170m NO 170m NO 170m Diameter 90°/135° Sweep Tee 170m NO 170m NO 170m Diameter 90°/135° Sweep Tee 170m NO 170m NO 170m NO 170m Diameter 90°/135° Sweep Tee 170m NO 170m NO 170m Diameter 90°/135° Sweep Tee 170m NO 170m Diameter 90°/135° Sweep Tee 170m NO 170m NO 170m Diameter 90°/135° Sweep Tee 170m NO 170m NO 170m Diameter 90°/135° Sweep Tee 170m NO 17		Valve Chamber					
Supply, deliver and install plastic Vulcathene pipework manufactured from co-polymer polypropylene with 3% carbon black ultra violet stabilizer according with BS EN ISO 9001. Where necessary items such as mastic, silicon, grouting etc. must be included in the rates. All connections to the dilution tanks are to be the responsibility of the contractor and must be priced for. "Vulcathene code W001" or equal and approved Laboratory Waste System Pipework 40mm diameter waste pipe 14 M 40mm diameter waste pipe 15 M 100mm ditto 12 NO 843 40mm diameter 90°/135° Sweep 17 NO 8444 40mm diameter 90°/135° Sweep 17 NO 845 M 100×50mm diameter 90°/135° Sweep Tee 17 NO 846 M 100×50mm diameter 90°/135° Sweep Tee 17 NO 847 SO x 40mm diameter equal Sweep Tee 17 NO 848 Reducer 50 mm diameter Access 17 NO 849 Plug 34 NO 849 Plug 34 NO 850 SO mm ditto 17 NO 850mm Diameter Line Coupler 50mm ditto 17 NO 850mm Signal Fire Richting September 1 NO 950mm Signal September	8.38	·	1	NO			
manufactured from co-polymer polypropylene with 3% carbon black ultra violet stabilizer according with BS EN ISO 9001, Where necessary items such as mastic, silicon, grouting etc, must be included in the rates. All connections to the dilution tanks are to be. the responsibility of the contractor and must be priced for. "Vulcathene code W001" or equal and approved Laboratory Waste System Pipework 4.40 Waste System Pipework 50 mm ditto 100mm ditto 115 M 100mm ditto 100mm ditto 100mm ditto 115 M 100mm diameter 90°/135° Sweep 17 NO 8.43 40mm diameter 90°/135° Sweep 17 NO 8.45 100x50mm diameter 90°/135° Sweep Tee 17 NO 8.46 40mm diameter equal Sweep Tee 17 NO 8.47 50 x 40mm diameter equal Sweep Tee 17 NO 8.48 Reducer 50 mm diameter Access 17 NO 8.49 Plug 34 NO 8.50 So mm ditto 50 mm ditto 50 mm Diameter Line Coupler 50mm Diameter Line Coupler 50mm ditto 8.51 LABORATORY DRAINAGE 450 mm x 600 mm masonry manholes complete with medium 8.52 duty cast iron cover and frame to BS 497 and 556 (Refer to 20 M 20		LABORATORY DRAINAGE					
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necessary items such as mastic, silicon, grouting etc. must be included in the rates. All connections to the dilution tanks are to be the responsibility of the contractor and must be priced for. "Vulcathene code W001" or equal and approved Laboratory Waste System Pipework 14 M 14 M 150 mm diameter waste pipe 150 mm ditto 155 M 100mm ditto 155 M 100mm ditto 155 M 100mm ditto 150 mm diameter 90°/135° Sweep 170 NO 150 NO							
included in the rates. All connections to the dilution tanks are to be the responsibility of the contractor and must be priced for. "Vulcathene code W001" or equal and approved Laboratory Waste System Pipework 40mm diameter waste pipe 14 M 15 M							
be							
"Vulcathene code W001" or equal and approved Laboratory Waste System Pipework 14							
Waste System Pipework		the responsibility of the contractor and must be priced for.					
8.40 40mm diameter waste pipe 14	0.00			N 4			
## Comm ditto ## Comm diameter 90°/135° Sweep ## Comm diameter 90°/135° Sweep Tee ## Comm diameter equal Sweep Tee ## Comm diameter equal Sweep Tee ## Comm diameter Socket ## Comm diameter Socket ## Comm diameter Socket ## Comm diameter Socket ## Comm diameter Access ## Comm diameter Access ## Comm diameter Access ## Comm ditto ## Comm Diameter Line Coupler ## Somm ditto ## Comm Diameter Line Coupler ## Somm ditto ## Comm X 600 mm masonry manholes complete with medium ## duty cast iron cover and frame to BS 497 and 556 (Refer to ## Drawings) ## Drawings ## Drawings ## Drawings ## Comm diameter Socket ## Drawings ## Comm X 600 mm masonry manholes complete with medium ## duty cast iron cover and frame to BS 497 and 556 (Refer to ## Drawings ## Draw		reacto Cyclem i Iponom					
100mm ditto 100mm ditto 100mm ditto 17 NO 20mm diameter 90°/135° Sweep 17 NO 20mm diameter 90°/135° Sweep 17 NO 20mm diameter 90°/135° Sweep 17 NO 20mm diameter 90°/135° Sweep Tee 17 NO 20mm diameter equal Sweep Tee 17 NO 20mm diameter equal Sweep Tee 17 NO 20mm diameter Socket 20mm diameter Line Coupler Somm Diameter Line Coupler Somm ditto 20mm ditto 20mm ditto 20mm x 600 mm masonry manholes complete with medium duty cast iron cover and frame to BS 497 and 556 (Refer to 20mm diameter Socket 20mm diameter Socket 20mm diameter Socket 20mm x 600 mm x 600 mm diameter Socket 20mm x 600 mm x 600							
8.42 Extra Over Vulcathene Tubing for the following:- 36 NO 8.43 40mm diameter 90°/135° Sweep 17 NO 8.44 Bend 50 mm ditto 12 NO 8.45 A0mm diameter equal Sweep Tee 17 NO 8.46 40mm diameter Socket 17 NO 8.47 50 x 40mm diameter Socket 17 NO 8.48 Plug 34 NO 8.50 50 mm ditto 17 NO 50 mm Diameter Line Coupler 50mm Diameter Line Coupler 17 NO 8.51 LABORATORY DRAINAGE 4 NO 8.52 450 mm x 600 mm masonry manholes complete with medium 4 NO 8.53 Drawings) 20 M 8.54 Provide heavy duty Upvc sewer 20 M 9.55 Provide heavy duty Upvc sewer pipe 20 M 8.56 Provide heavy duty Upvc sewer pipe 20 M 8.57 Roman and ground preparation for cess pit 20 NO 8.57 Roman and ground preparation for page 13 NO NO	0	oo min dito					
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8.45 100x50mm diameter 90°/135° Sweep Tee 17 NO 40mm diameter equal Sweep Tee 17 NO 50 x 40mm diameter Socket 17 NO 8.48 Reducer 50 mm diameter Access 17 NO 8.49 Plug 34 NO 17 NO 50mm Diameter Line Coupler 50mm ditto 17 NO 50mm Diameter Line Coupler 50mm ditto 17 NO 50mm Diameter Line Coupler 50mm ditto 17 NO 50mm ditto 17 NO 50mm Diameter Line Coupler 50mm ditto 17 NO 50mm Diameter Line Coupler 50mm ditto 18.51 LABORATORY DRAINAGE 450 mm x 600 mm masonry manholes complete with medium 60mm duty cast iron cover and frame to BS 497 and 556 (Refer to 50 Drawings) 20 Mm 20 CM 10 NO 50mm Diameter Line Coupler 50mm ditto 19 NO 50mm Diameter Line Coupler 50mm ditto 19 NO 50mm ditto 19			17	NO			
8.46 8.47 8.48 8.49 8.49 8.50 8.50 8.50 8.51 8.52 8.53 8.54 8.56 8.56 8.57 8.57 8.57 8.58 8.57 8.57 8.68 8.69 8.69 8.69 8.60 8.60 8.60 8.60 8.60 8.60 8.60 8.60							
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Excavation and ground preparation for cess pit Construction of cess pit including supply of all fittings as per the drawings (Refer to Drawings) PORTABLE FIRE FIGHTING EQUIPMENT 5kg Carbon Dioxide & dry (chemical) powder type fire extinguishers conforming to BS EN 3 Carried to collection Brought forward from page 13 Brought forward from page 14	8.56		1	NO			
8.57 Construction of cess pit including supply of all fittings as per the drawings (Refer to Drawings) PORTABLE FIRE FIGHTING EQUIPMENT 5kg Carbon Dioxide & dry (chemical) powder type fire extinguishers conforming to BS EN 3 Carried to collection Brought forward from page 13 Brought forward from page 14		l					
drawings (Refer to Drawings) PORTABLE FIRE FIGHTING EQUIPMENT 5kg Carbon Dioxide & dry (chemical) powder type fire extinguishers conforming to BS EN 3 Carried to collection Brought forward from page 13 Brought forward from page 14							
PORTABLE FIRE FIGHTING EQUIPMENT 5kg Carbon Dioxide & dry (chemical) powder type fire extinguishers conforming to BS EN 3 Carried to collection Brought forward from page 13 Brought forward from page 14	8.57		2	NO			
5kg Carbon Dioxide & dry (chemical) powder type fire extinguishers conforming to BS EN 3 Carried to collection Brought forward from page 13 Brought forward from page 14		5 (
extinguishers conforming to BS EN 3 Carried to collection Brought forward from page 13 Brought forward from page 14							
Brought forward from page 13 Brought forward from page 14		extinguishers conforming to BS EN 3					
Brought forward from page 14		Carried to collection					
		Brought forward from page 13					
From above							
		From above					
TOTAL MECHANICAL INSTALLATIONS CARRIED TO		TOTAL MECHANICAL INSTALLATIONS CARRIED TO					

	Project: Proposed New stand alone Laboratory for JSS in D	THE LUTHERAN WORLD FEDERATION actallance			
ITEM	DESCRIPTI ON	UNI T	QTY	RATE (KES)	AMOUNT (KES)
	BILL NO. 9: ELECTRICAL INSTALLATION Allow for testing and commissioning of all the electrical installation systems as per approved working drawings, specifications and bills of quantities to the entire satisfaction of the Engineer Lighting Supply, install, connect, test and commission complete lighting fixture, including all supports, lamps, suspensions, clamps, switchgears, internal conductors and/or cables, and all other				
	accessories necessary as per drawings, specifications and related				
9.1	standards.	12	NO		
9.2	Type D: 4 Feet LED light fitting Type C-18 Watts recessed LED panel downlighter with 185mm	5	NO		
9.3	diameter cut-out.	10	NO		
9.4	Type SL- 22w LED Bulkhead massive Sussex CAT	2	NO		
0.1	81657/01/30	_			
	Type EXIT :Utra-slim white aluminum bodied, non-maintained LED Exit sign with 3hrs autonomy				
	Cables, Cable pathways and Conduits Supply, install, test and commission 450/750 volts 6491X cables with				
	all required accessories for proper installation and operation				
	<u>including conduits, pipes(each cable in separate conduit or pipe),</u> cable lugs, ties etc. as shown on drawing, as per the				
9.5	preamble, the	15	NO		
	specifications and supervision engineer's requirements. All				
	drawing from distribution boards				
9.6	Supply, install and connect complete 3x1.5 sq. mm color-coded SC cables to internal lighting points/switching boxes/distribution board drawn in Concealed /surface 20mm HG PVC conduits, complete with draw boxes, switch boxes and other necessary		NO		
9.7	accessories.	10	NO		
9.1	Supply, install and connect complete 3x1.5 sq. mm color-coded SC cables to external lighting points/distribution board drawn in Concealed /surface 20mm HG PVC conduits, complete with draw boxes, switch boxes and other necessary accessories. Supply, install and connect complete 3x2.5 sq. mm color-coded SC cables to socket power points drawn in ring and within Concealed				
9.10 9.11 9.12	/surface 25mm HG PVC conduits, complete with draw boxes, switch boxes and other necessary accessories.	3 2 1	NO NO NO		
0.12	Light Switches and shallow Pattress Boxes Supply, install and connect 240V, 50Hz, 10A lighting switch outlet plate as MK or equal and approved 1 gang 1 way 2 gang 2 way		,		

BILL OF QUANTITIES FOR 1

Dusk-to-Dawn photocell as Thorn QPK or equal and approved

Carried to collection

	Project:				42
	Proposed New stand alone Laboratory for JSS in D	THE LUTHERAN WORLD			
		FEDERATION actalliance			
ITEM	DESCRIPTI ON	UNI T	QTY	RATE (KES)	AMOUNT (KES)
	Power sockets and deep Pattress Boxes, Isolators and DP Switches			,	
9.13	Supply, install, test and commission the following power sockets as shown on drawing, as per the preamble, the specifications and supervision engineer's requirements. Supply, install and connect 13Amp switched double socket	6	NO		
9.14	outlets for normal power as Carl and Gilberts or equivalent Supply, install and connect 13Amp switched double socket outlets for normal power (high level) as Carl and Gilberts or	8	NO		
9.15	equivalent	1	NO		
	Voice and data points comprising 25mm conduit, draw wire and end box and blanked				
9.16	Distribution Boards Supply, install, connect, testing and commission the following final distribution boards, distribution terminal blocks according to drawings, specifications and relevant codes and as Merlin Gerin or equal and approved Supply, install, connect-up complete 63 Amp 6 way TP/N main Distribution Board as Merlin Gerin or equal and approved for normal power supply, for main DB-KI complete with integral isolator as specified	1	NO		
9.17	Supply, install, test and commission miniature circuit breakers (MCBs) rated at 500Vac for above items with 10KA short circuit current according to schematics, specifications and relevant codes and as Havells or equal	4	NO		
9.18	and approved 10A (SP)- 30mA	6	NO		
9.19	20A (SP)- 30mA	5	NO		
9.20		5	NO		
	30A (SP)- 30mA Blanking plates for items above(SP)				
	Diaming plates for items above(SF)		_		
9.21	Earthing	1	SUM		
	Supply and install earthing for the meter board comprising 25x3mm copper tape lead, 1800mm long x 15mm diameter copper earth electrode as Furse or equal, 300mm x 300mm x 300mm deep concrete inspection earth pit with removable cover, 600mm x 600mm copper mat, soil conditioning agents necessary to achieve earthing value below 10-0hms and all				
	other necessary accessories				
	Carried to collection Brought forward from page 16				
	Brought forward from page 16 From above				
	TOTAL ELECTRICAL INSTALLATIONS CARRIED TO SUMMARY				

	Project: Proposed New stand alone Laboratory for JSS in Dadaab & Kakuma					
ITEM	DESCRIPTI ON	UNI T	QTY	RATE (KES)	AMOUNT (KES)	
	BILL NO. 10: LABORATORY L.P. GAS INSTALLATION Supply, install, test and commission the following materials and equipment's; Prepare & submit draft and three final copies of operation & instruction manuals to Engineer's approval					
	Pipe work and fittings: Seamless Schedule 40 black Carbon steel pipes.					
10.1 10.2	15mm ø Schedule 40 pipe 32mm ø PVC Pipe Sleeve	30 20	M M			
10.3	Elbows 15mm ø Weld on elbows	7	NO			
10.4	Ball Valves 15 mm ball valve	5	NO			
10.5	Tee 15mm diameter tee	3	NO			
10.6	Hex Nippal 15mm diameter SCH 40 Hex Nippal	5	NO			
10.7	Union 15mm diameter union	4	NO			
10.8	Angle Brackets and Anchoring Pipe Supports Mild steel angle brackets, Drop in anchors, clips complete with anchoring rawl bolts, nuts and painted with 2 coats of super gloss paint.	5	NO			
	Gas Outlet and Detection System <u>Copper tubes to B.S 2871 Part 1 with Brass capillary or compression</u> <u>fittings to B.S 864:1983</u> 6/8 Copper Tubing.					
10.9 10.1	10/12 Copper	60 2	M M			
10.12 10.13 10.14 10.15	Extra Over Copper Tubing for the Following Fittings 6/8 x15mm Brass Adaptor. 10/12 x15mm Brass Adaptor. 6/8 Copper Tee. Copper Clip. Pressure Gauge. Pole connector.	24 2 26 50 1	NO NO NO NO NO			
	Carried to collection					

Project:

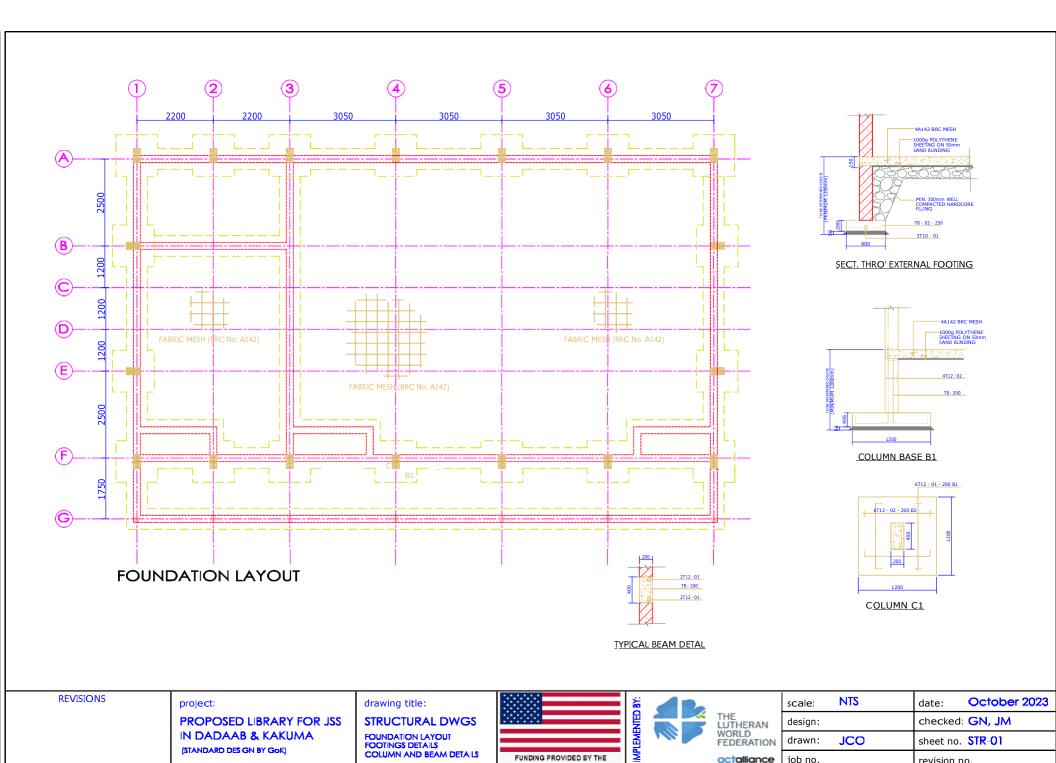
Proposed New stand alone Laboratory for JSS in Dadaab & Kakuma



					actalliance
ITEM	DESCRIPTI ON	UNI T	QTY	RATE (KES)	AMOUNT (KES)
10.16	Pressure Regulator High pressure regulator as "Rego" or equal approved by the engineer	1	NO		
10.17	Low pressure regulator as "Rego" or equal approved by the engineer	1	NO		
10.18	LPG Bulk Tank and accessories 500 Kg Horizontal above ground L.P Gas storage tank complete as specified and with filling valve, content gauge, multi valve, safety valve, drain plug, and all complete with factory protective paint finish. Tank to be as "Antonio	1	NO		
10.19 10.2	Merlone" or equal approved by the engineer Initial refill of LPG Tank Earthing for the tank	500 1	KG ITEM		
10.21	Gas cage Supply materials and construct gas cage complete as per details provided in the drawings; including all necessary excavation works	1	ITEM		
10.22		15	NO		
10.23	Laboratory Bench Gas Outlets Valtrex Lab line two-way bench outlets spaced at 90 degree as model VL 2601/D. Tap should be lift turn to open in operation Supply and install a no-smoking sign with the writing L.P GAS: NO SMOKING OR NAKED LIGHTS.	2	NO		
10.24	Bunsen burners High Quality Bunsen Burners, with nickel-plated, die-cast zinc bases. Burners to feature aluminum mixing tubes and serrated gas inlet connections, complete with Air Regulators and flame stabilizers	15	NO		
	Carried to collection				
	COLLECTION				
	Brought forward from page 18				
	From above				
	TOTAL FOR LABORATORY L.P. GAS INSTALLATION				

BILL NO. 11: CONTINGENCIES & PROVISIONAL SUM Provide a Provisional Sum for the supply and installation of solar system (measured separately to sult Laboratory installations) Provide a Provisional Sum for general landscaping and external works Provide a Provisional Sum for Signage, Doors & cabinets Tags and Visibility as provided (GoK, PRM, UNHCR & LWF) Provide a Provisional sum for general preliminaries (e.g. site hoarding, storage, first aid kit, PPE, fire extinguishers, notice board with appropriate notice, etc) relevant in the industry and compliant to: (a) Safety Standards for Schools in Kenya (b) Basic Education Act No 14 of 2013 (c) Public Health Act (Cap 242) (d) Occupational safety and Health Act 2007 (+ subsidiary legislation) (e) Environmental Management and Coordination Act 1999 + subsidiary legislation) (f) Ministry of Public Works - Building Regulations and Standards (Building Code 1968) (g) Physical and Land use Planning Act, 2019 (h) Standards and Guidelines for WASH Infrastructure in pre- primary and primary schools		Project: Proposed New stand alone Laboratory for JSS in E	THE LUTHERAN WORLD FEDERATION actalliance		
Provide a Provisional Sum for the supply and installation of solar system (measured separately to suit Laboratory installations) Provide a Provisional Sum for general landscaping and external works Provide a Provisional Sum for Signage, Doors & cabinets Tags and Visibility as provided (GoK, PRM, UNHCR & LWF) Provide a Provisional sum for general preliminaries (e.g. site hoarding, storage, first aid kit, PPE, fire extinguishers, notice board with appropriate notice, etc) relevant in the industry and compliant to: (a) Safety Standards for Schools in Kenya (b) Basic Education Act No 14 of 2013 (c) Public Health Act (Cap 242) (d) Occupational safety and Health Act 2007 (+ subsidiary legislation) (e) Environmental Management and Coordination Act 1999 + subsidiary legislation (f) Ministry of Public Works - Building Regulations and Standards (Building Code 1968) (g) Physical and Land use Planning Act, 2019 (h) Standards and Guidelines for WASH Infrastructure in	ITEM		QTY		
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TOTAL FOR CONTINGENCIES & PROVISIONAL SUM		hoarding, storage, first aid kit, PPE, fire extinguishers, notice board with appropriate notice, etc) relevant in the industry and compliant to: - (a) Safety Standards for Schools in Kenya (b) Basic Education Act No 14 of 2013 (c) Public Health Act (Cap 242) (d) Occupational safety and Health Act 2007 (+ subsidiary legislation) (e) Environmental Management and Coordination Act 1999 + subsidiary legislation (f) Ministry of Public Works - Building Regulations and Standards (Building Code 1968) (g) Physical and Land use Planning Act, 2019 (h) Standards and Guidelines for WASH Infrastructure in pre- primary and primary schools			

	Project: Proposed New stand alone Laboratory for JSS in E	THE LUTHERAN WORLD FEDERATION actalliance			
ITEM	DESCRIPTI ON	UNI T	QTY	RATE (KES)	AMOUNT (KES)
	SUMMARY				
1	BILL No. 1: SUBSTUCTURES				
2	BILL NO. 2: REINFORCED CONCRETE FRAME				
3	BILL NO. 3: WALLING				
4	BILL NO. 4: ROOFING				
5	BILL NO. 5: WINDOWS AND CABINETRY				
6	BILL NO. 6: DOORS				
7	BILL NO. 7: FINISHES				
8	BILL NO. 8: MECHANICAL INSTALLATIONS				
9	BILL NO. 9: ELECTRICAL INSTALLATION				
10	BILL NO. 10: LABORATORY L.P. GAS INSTALLATION				
11	BILL NO. 11: CONTINGENCIES & PROVISIONAL SUM				
	TOTAL FOR 1 LABORATORY				

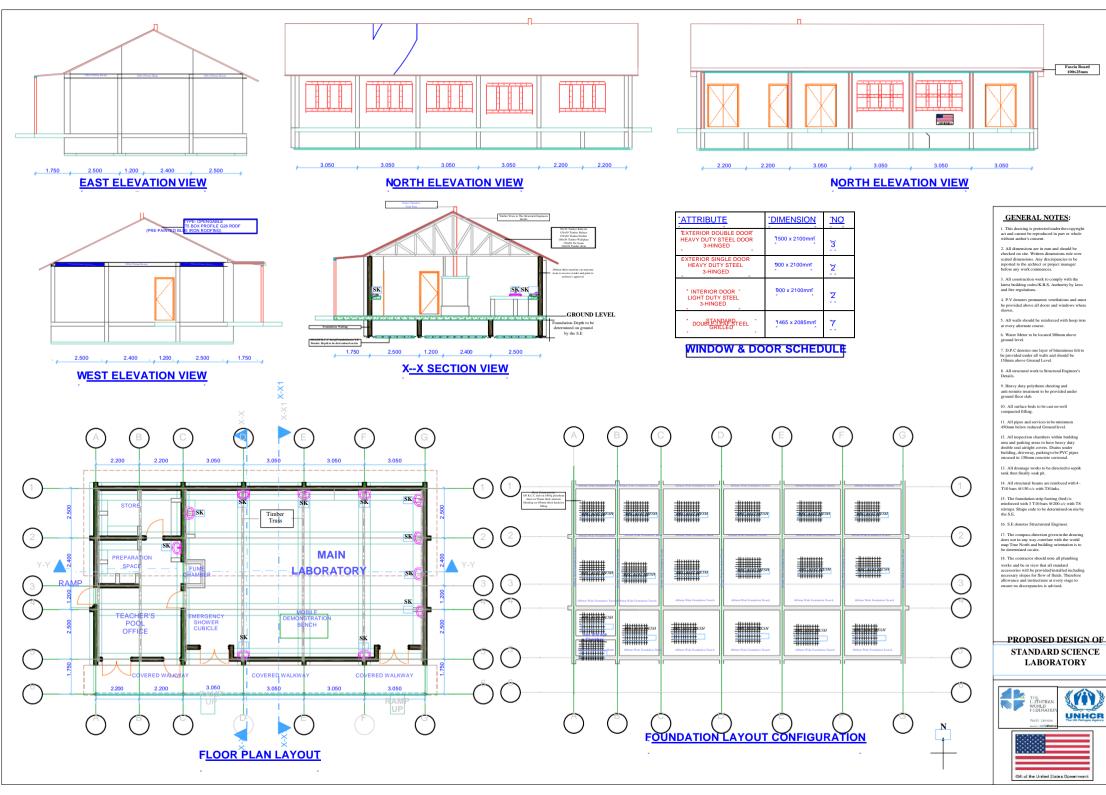


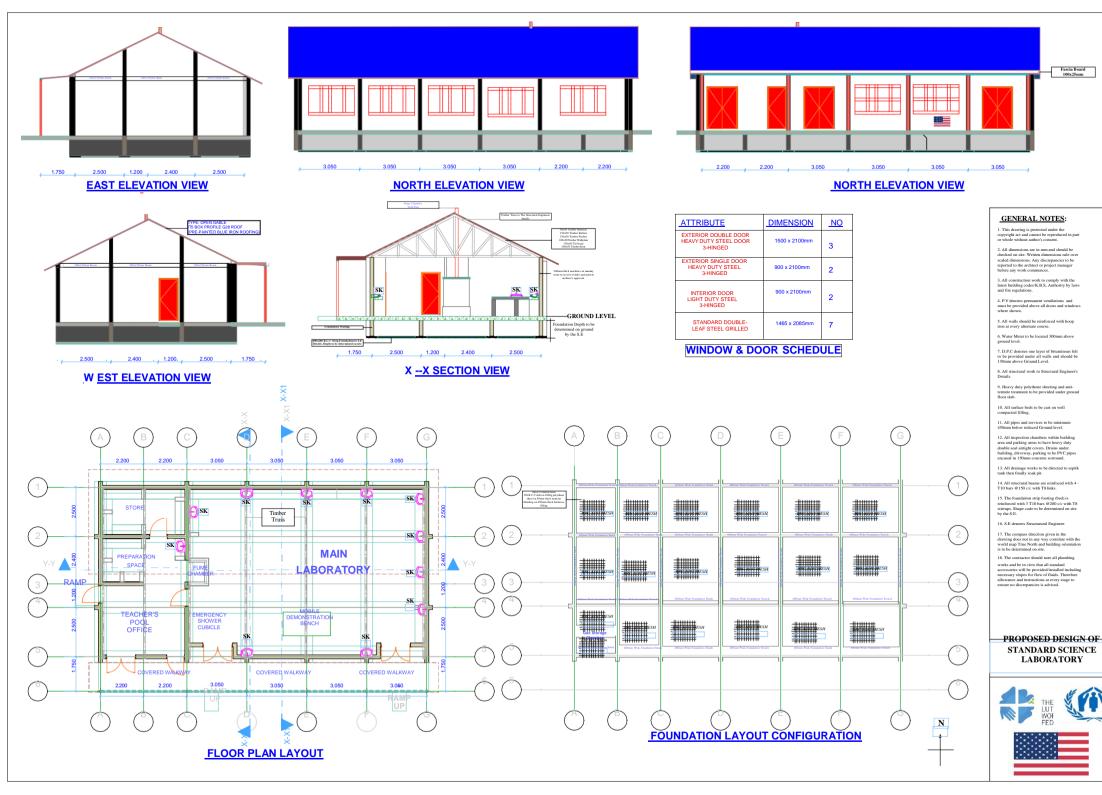
FUNDING PROVIDED BY THE UNITED STATES GOVERNMENT

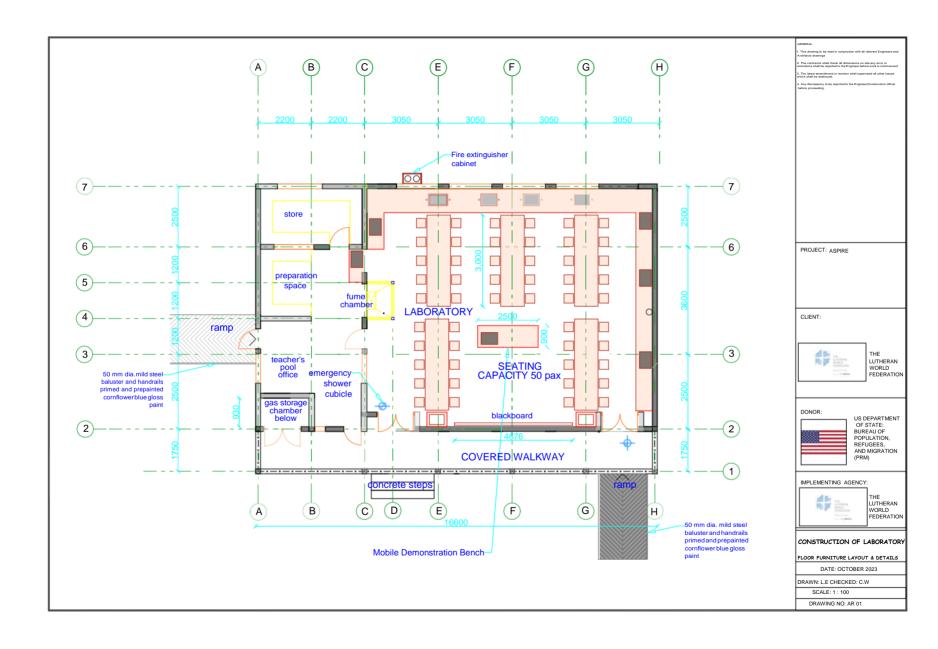
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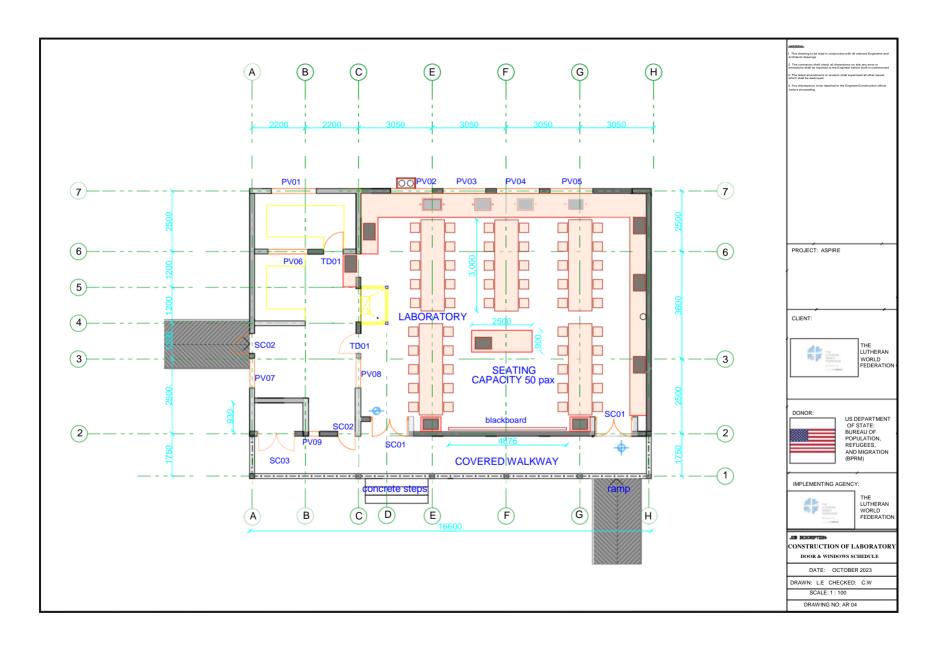
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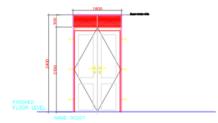
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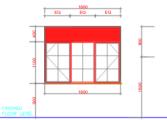




(2 IN NUMBER)

Steel comment door nikth upper panel eneds of 15 erns INS pills at 50 erns specings and coffee level and energy and encologing guess wisided and bowel with 20 erns field best to Englewood's approved. Indirection Lock - 2 Lorner Statistica steel Lindfee Lock - 2 Lorner Statistica steel Lindfee Lover - 2 Lorner Statistica steel Lindfee opposition of the Lover - 2 Lorner statistical seel Lindfee oppositions.

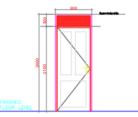
cylinder
Hinges -2 inch sik number buch hinge
Fielch - Palieted with Constituer
blue gloss paint as CROWN or equivalent.



lifett painted (Comflower blue colour) mild steel concernent window,

BMM thick clear glass field on MR4 Steel cooperant Vindor, with party adhouses to Engineer's approval.

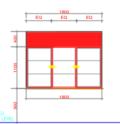
Purpose made menganise bress sizh bonzo finish PURA LA COSSONES and 400 mm parament vantilation made of 15 mm MS pillio et 50 mm paging and coffice hay and molipado gaves initiade and bowed sizh. 20 mm finish bur in apper persis.



(2 IN NUMBER)
Steel cosement door with upper penel enade of
15 even MS galle at 50 even speciage and coffee
tray and enosquito gause wolded and bound with
20 even flat bar to Engineer's approval.

Mortice Lock - 2 Lever Stainless steel Mortice ck - 2 Lever Steinkes steel Morfice Lock - 50 x :50 SHS frame - 2 Lever abunishum as UNION or equivalent -Steinless steel Euro Profile double Framo Lover

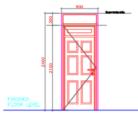
cylinder cylinder — Stainless steel Euro Peofile double cylinder Hingss — 2 inch three number bush hings Fisikeh — Painted with Coerflower blue gloss paint as CROWN or equivalent.



Mett painted (Comflower blue colour) mild steel casement window,

hild steel penels with burgler proof latches wolded and bound with 20 mm flet bar. The central mild steel penel should be permanently faced.

Pumpose made manganese brees with bronze fixeth PLUS ALL ACCESSORIES and 400 mm parameter workleidon medical or 15 mm 185 grille at 50 mm specings and coffee tray and mospielo gases wilded and bound with 20 mm fist bar-in spoor penel.



Nominatory
 N

cyfindar Hinges —100 x 75 mm tro bell beaving butt joint Hinge to be to



Matt painted (Comflower blue colour) mild steel reindow,

liftid steel pawels with burglar proof latches welded and bound with 20 mm flat bar. The contral resid steel panel should be pormanantly faced.

Purpose made manganese brace with bronze finish PLUS ALL ACCESSORIES.

PROJECT: ASPIRE

CLIENT:



THE LUTHERAN WORLD FEDERATION

DONOR:



US DEPARTMENT OF STATE: BUREAU OF POPULATION, REFUGEES. AND MIGRATION

IMPLEMENTING AGENCY:



LUTHERAN WORLD. FEDERATION

JUB DESCRIPTION

CONSTRUCTION OF LABORATORY

DOOR AND WINDOW SCHEDULE

DATE: OCTOBER 2023

DRAWN: L.E CHECKED: C.W

SCALE: 1:100

DRAWING NO: AR 05