

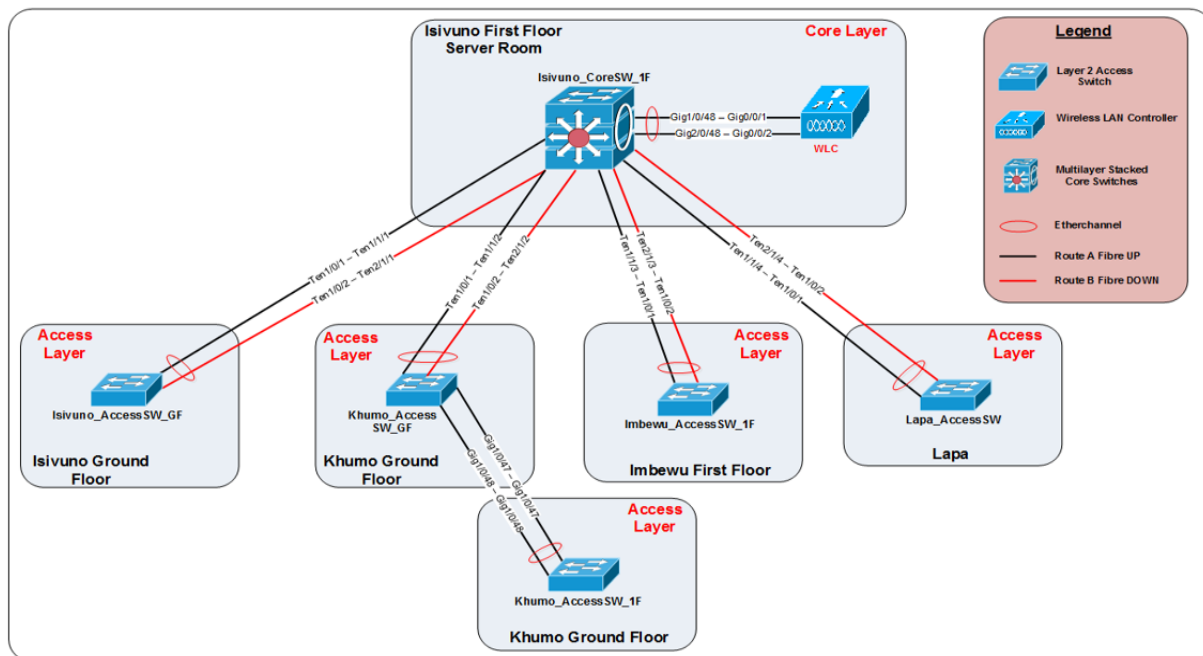
1. GPS location of the WAN termination.

The Campus

https://maps.app.goo.gl/EaXkxCovgZQNNTr7?g_st=ig

2. More accurate site layout information/campus layout

Physical Network Architecture Diagram



Two Cisco 3650 48 port Layer 3 switches are deployed at the Collapsed Core/Distribution layer of the network.

These switches support mixed media 10GE or Gigabit Ethernet small form-factor pluggable (SFP) interfaces. Single mode, Multimode Fibre or copper interfaces for Gigabit Ethernet is supported depending on which SFP+ module is installed in the switch.

These switches are interconnected by means of two stacking cables.

The Cisco Catalyst 3650 48-port switches provide network connectivity to the following devices:

10GE Layer 2 connectivity to the Access layer switches.

1GE Layer 2 connectivity to the WLAN controller

1GE connectivity to the WAN Routers

1GE connectivity to the Servers

Each access layer switch has dual 10GE uplinks to the collapsed Core/Distribution switches utilising multimode and single mode fibre cabling infrastructure.

Access Layer

Cisco Catalyst 2960X layer 2 switches are deployed in the Access layer of the EPPF network.

Power over Ethernet (PoE) is supported.

The access switches provide 10/100/1000 Mbps connectivity to the following devices:

Workstations

Multifunctional devices

WLAN Access Points (APs)

Each access switch is dual homed to the collapsed Core/Distribution switches. The connectivity between the access and collapsed Core/Distribution switches are 10 Gigabit Ethernet using multimode or single mode fibre optic cabling.

Equipment list

Collapsed Core/Distribution layer – Isivuno Building First Floor

Qty	Product Code	Description
2	WS-C3650-12X48UR-S	CISCO Cisco Catalyst 3650 48 Port mGig, 8x10G Uplink, IP Base
2	S3650UK9-163	CISCO UNIVERSAL
2	PWR-C1-1100WAC	CISCO 1100W AC Config 1 Power Supply
2	CAB-C15-CBN	CISCO Cabinet Jumper Power Cord, 250 VAC 13A, C14-C15 Connectors
2	C3650-STACK-KIT	CISCO Cisco Catalyst 3650 Stack Module
2	STACK-T2-50CM	CISCO 50CM Type 2 Stacking Cable
4	C3650-STACK	CISCO Cisco Catalyst 3650 Stack Module
2	PWR-C1-BLANK	CISCO Config 1 Power Supply Blank

Qty	Product Code	Description
2	CON-PSRT-WSC3653X	CISCO PRTNR SS 8X5XNBD Cisco Catalyst 3650
1	SFP-10G-LR=	CISCO 10GBASE-LR SFP Module
9	SFP-10G-SR=	CISCO 10GBASE-SR SFP Module

Access layer – Isivuno Building Ground Floor

Qty	Product Code	Description
1	WS-C2960X-48FPD-L	CISCO Catalyst 2960-X 48 GigE PoE 740W, 2 x 10G SFP+, LAN Base
1	CAB-ACSA	CISCO AC Power Cord (South Africa), C13, BS 546, 1.8m
1	PWR-CLP	CISCO Power Retainer Clip For 3560-C, 2960-C and 2960-L Switches
1	CON-PSRT-WSC296XL	CISCO PRTNR SS 8X5XNBD Catalyst 2960-X 48 GigE PoE 740W, 2 x 10
2	SFP-10G-SR=	CISCO 10GBASE-SR SFP Module

Access layer – Khumo Building Ground Floor

Qty	Product Code	Description
1	WS-C2960X-48FPD-L	CISCO Catalyst 2960-X 48 GigE PoE 740W, 2 x 10G SFP+, LAN Base
1	CAB-ACSA	CISCO AC Power Cord (South Africa), C13, BS 546, 1.8m
1	PWR-CLP	CISCO Power Retainer Clip For 3560-C, 2960-C and 2960-L Switches
1	CON-PSRT-WSC296XL	CISCO PRTNR SS 8X5XNBD Catalyst 2960-X 48 GigE PoE 740W, 2 x 10
1	SFP-10G-SR=	CISCO 10GBASE-SR SFP Module
1	SFP-10G-LR=	CISCO 10GBASE-LR SFP Module

Access layer – Khumo Building First Floor

Qty	Product Code	Description
1	WS-C2960X-48FPD-L	CISCO Catalyst 2960-X 48 GigE PoE 740W, 2 x 10G SFP+, LAN Base
1	CAB-ACSA	CISCO AC Power Cord (South Africa), C13, BS 546, 1.8m
1	PWR-CLP	CISCO Power Retainer Clip For 3560-C, 2960-C and 2960-L Switches
1	CON-PSRT-WSC296XL	CISCO PRTNR SS 8X5XNBD Catalyst 2960-X 48 GigE PoE 740W, 2 x 10
2	SFP-10G-SR=	CISCO 10GBASE-SR SFP Module

Access layer – Lapa Building

Qty	Product Code	Description
1	WS-C2960X-24PD-L	CISCO Catalyst 2960-X 24 GigE PoE 370W, 2 x 10G SFP+, LAN Base
1	CAB-ACSA	CISCO AC Power Cord (South Africa), C13, BS 546, 1.8m
1	PWR-CLP	CISCO Power Retainer Clip For 3560-C, 2960-C and 2960-L Switches
1	CON-PSRT-WSC604DL	CISCO PRTNR SS 8X5XNBD Catalyst 2960-X 24 GigE PoE 370W, 2 x 10
2	SFP-10G-SR=	CISCO 10GBASE-SR SFP Module

Access layer – Imbewu Building First Floor

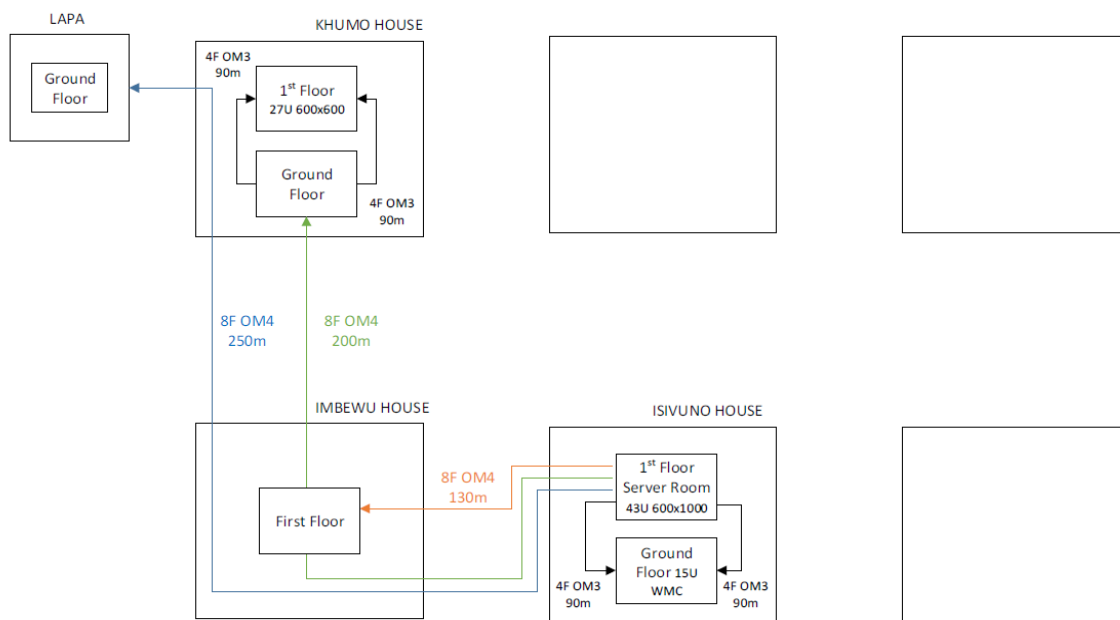
Qty	Product Code	Description
1	WS-C2960X-48FPD-L	CISCO Catalyst 2960-X 48 GigE PoE 740W, 2 x 10G SFP+, LAN Base
1	CAB-ACSA	CISCO AC Power Cord (South Africa), C13, BS 546, 1.8m

Qty	Product Code	Description
1	PWR-CLP	CISCO Power Retainer Clip For 3560-C, 2960-C and 2960-L Switches
1	CON-PSRT-WSC296XL	CISCO PRTNR SS 8X5XNBD Catalyst 2960-X 48 GigE PoE 740W, 2 x 10
2	SFP-10G-SR=	CISCO 10GBASE-SR SFP Module

3. Is the backbone fibre Single mode fibre?

EPPF OFFICE PARK FIBER LINK CONNECTION

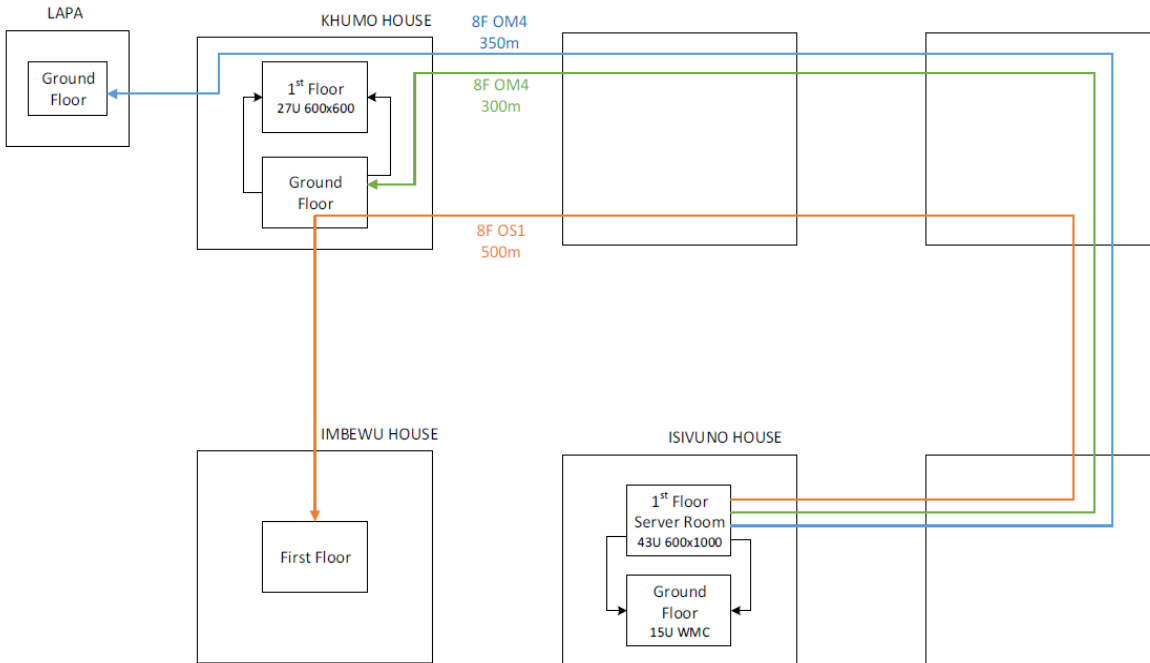
Route A



Route A (Primary route)

8 core OM4 multimode fibre cables from the Server room in the Isivuno building to the Imbewu, Khumo and Lapa building.

Route B



Route B (Secondary route)

8 core OS1 single mode fibre cable from the Server room in the Isivuno building to the Khumo building via Aluwani building.

4 core OM3 multimode fibre cables between the Ground and first floor in the Isivuno and Khumo buildings respectively.

4. Floorplans of the building for wireless AP layouts

Isivuno building has two floors, namely ground floor and 1st floor.

Imbewu building has two floors, like Isivuno building.

Khumo building has two floors, like Isivuno.

Lapa has ground floor only.

AP Name	IP Address (IPv4/IPv6)	AP Model	AP MAC	AP Up Time
EPPF_ISV_1F_AP02	172.20.100.201	AIR-CAP2602I-E-K9	7c:ad:74:db:5a:5e	84 d, 02 h 08 m 03 s
EPPF_IMBEWU_1F_AP02	172.20.100.205	AIR-CAP2602I-E-K9	4c:4e:35:63:b8:ec	75 d, 22 h 19 m 49 s
EPPF_IMBEWU_1F_AP01	172.20.100.204	AIR-CAP2602I-E-K9	4c:00:82:b9:8c:f3	75 d, 22 h 18 m 32 s
EPPF_IMBEWU_GF_AP02	172.20.100.207	AIR-AP2802I-E-K9	4c:71:0d:42:e6:52	75 d, 22 h 20 m 57 s
EPPF_IMBEWU_GF_AP01	172.20.100.206	AIR-AP2802I-E-K9	4c:71:0d:43:0b:a8	75 d, 22 h 20 m 57 s
EPPF_ISV_1F_AP01	172.20.100.200	AIR-CAP2602I-E-K9	10:f3:11:9c:ea:6d	54 d, 02 h 15 m 42 s
EPPF_KHUMO_GF_AP02	172.20.100.214	AIR-AP2802I-E-K9	24:36:da:69:41:1e	52 d, 18 h 21 m 49 s
EPPF_KHUMO_GF_AP01	172.20.100.210	AIR-CAP2602I-E-K9	4c:00:82:cb:d3:b5	52 d, 18 h 21 m 24 s
EPPF_KHUMO_1F_AP01	172.20.100.211	AIR-AP2802I-E-K9	50:0f:80:59:3a:9c	52 d, 18 h 20 m 25 s
EPPF_KHUMO_1F_AP03	172.20.100.212	AIR-AP2802I-E-K9	50:0f:80:59:3e:96	52 d, 18 h 20 m 25 s
EPPF_KHUMO_1F_AP02	172.20.100.208	AIR-CAP2602I-E-K9	4c:00:82:71:07:83	52 d, 18 h 20 m 03 s
EPPF_LAPA_GF_AP01	172.20.100.213	AIR-AP2802I-E-K9	00:5d:73:19:a9:96	46 d, 16 h 52 m 01 s
EPPF_ISV_GF_AP03	172.20.100.205	AIR-AP2802I-E-K9	50:0f:80:59:39:36	14 d, 15 h 24 m 07 s
EPPF_ISV_GF_AP04	172.20.100.203	AIR-AP2802I-E-K9	24:36:da:69:3f:90	54 d, 02 h 15 m 53 s
EPPF_ISV_GF_AP01	172.20.100.209	AIR-AP2802I-E-K9	24:36:da:69:2a:fa	41 d, 00 h 14 m 50 s

Building	Access Points (AP)
Isivuno ground floor	4 x APs
Isivuno 1 st floor	2 x APs
Imbewu ground floor	2 x APs
Imbewu 1 st floor	2 x APs
Khumo ground floor	3 x APs
Khumo 1 st floor	2 x APs
Lapa	1 x AP
Total APs	16

5. Propose SLA required.

Proposed resolution time should be as follows:

Priority 1 – resolution time is 1 hour.

Priority 2 – resolution time is 4 hours

Priority 3 – resolution time is 8 hours

6. With the estimated contract start date of 01 Dec 2023, does EPPF expect all equipment and WAN links to be in place and installed by 1 December?

Yes,

7. Cabling requirements for the 4 building

- a. Cat6 cabling will be required.
- b. The quotation of the installation of the network point will be sufficient because we do not have total number of the network point that will be required.

8. Number of switches required per building.

Isivuno building – estimated 5 switches

2 x 48 port core switches

3 x 48 port access switches

Imbewu building – 2 x 48 port switches

Khumo building – 2 x 48 port switches

Lapa – 1 x 24 port switch

9. SFPs quantises per buildings – Cabinet requirements

No cabinet is required.

Additional questions

Doc Ref.	Page No.	Clause No.	Original Statements	Questions	Answers
RFP_for_EPPF_Network_Refresh_Project_-_14_September_2023	Page 8	4.7	Stage 1: BBBEE: 20% Pricing: 20% Functional Ability: 55% Data Privacy - POPIA Compliance: 5%	How many points do bidders need to pass stage 1?	Top three bidders will be shortlisted
RFP_for_EPPF_Network_Refresh_Project_-_14_September_2023	Page 8	4.7	Stage 2(Shortlisted Bidders) Solution Demonstration, Presentation and Due diligence: 100%	1.What's the time for the Solution Demonstration? 2.If the bidder can demonstrate remotely? 3.What are the scoring rules for the demonstration?	Each bidder may be allocated an hour for presentation
RFP_for_EPPF_Network_Refresh_Project_-_14_September_2023	Page 16	5.3	There is 1 X Site (EPPF Head Office) and there are 4 buildings within the Head Office	How many terminals are connected to switches in each building?	See the responses above
RFP_for_EPPF_Network_Refresh_Project_-_14_September_2023	Page 16	5.3	There is a Ring Fibre around the Office Park connecting all the buildings,	Does the bidder need to provide multi-mode optical modules or single-mode	Both multi and single mode optical modules

			and this will be re-used for the network refresh project.	optical modules to reuse optical fibers?	
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Staff distribution within the buildings

Total staff complement		170
Building 1 -Isivuno	40%	
Building 2 – Imbewu	30%	
Building 3 – Khumo	30%	
Building 4 - Lapa	Workshops and staff meetings	

There is no mention of server port requirements, can we get an indication of port count, media type and speed required for the server farm?

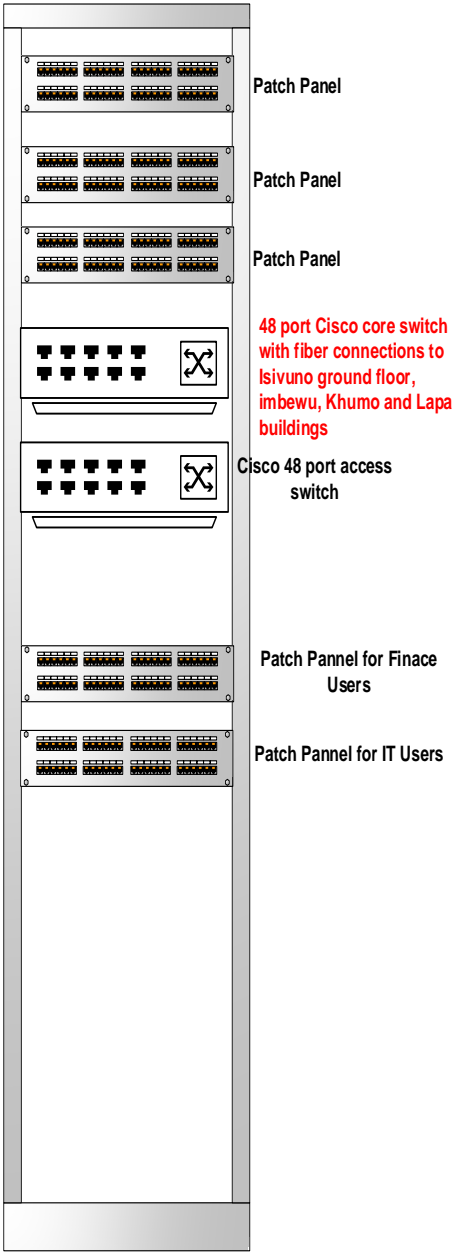
EPPF has taken a strategic decision to not host servers on premises going forward. All servers will be hosted in Azure environment going forward.

Please provide make, models and quantities of the existing LAN and WLAN equipment that needs to be refreshed?

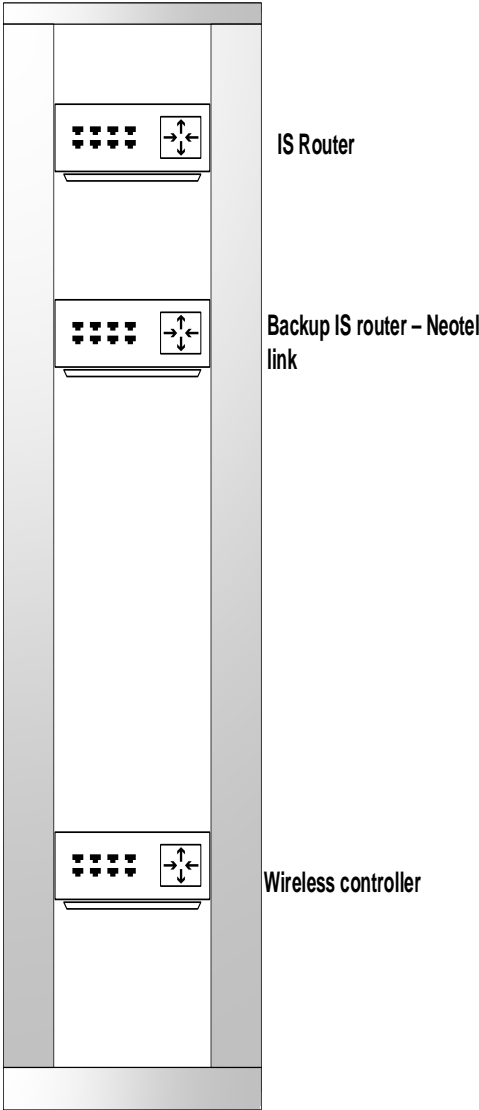
Role		Cabinet	
Core distribution switch	2 x Cisco 3650	Isivuno first floor room	
Access switch	1x 48 ports Cisco 2960	Isivuno first floor room	
Access switch	1 x 48 ports Cisco 2960	Isivuno ground floor	
Access switch	1 x 48 ports Cisco 2960	Imbewu first floor	
Access switch	1 x 48 ports Cisco 2960	Imbewu first floor	

Access switch	1 x 48 ports Cisco 2960	Khumo ground floor	
Access switch	1 x 48 ports Cisco 2960	Khumo first floor	
Access switch	1 x 48 ports Cisco 2960	Lapa	
Routers	2 x IS Cisco routers	Isivuno first floor room	
Firewall	1 x FortiGate firewall	Hosted at IS	

Isivuno building first floor



Isivuno first floor external links



- Please can you send me the location address (co-ordinates) where these services will be deployed so that I can be able to quote on internet line.

EPPF Office Park 24 Georgian Crescent East Bryanston East Johannesburg 2191. GPS **Co-ordinates**. S 26 02.437 E 28 01.101. postal address. Private Bag X50 Bryanston 2021. ...

Please confirm the closing date for the bid, the document states 20 October and the EPPF website states 27 October.

The timelines for the RFP process are as follows:

Activity	Due Date
Distribute RFP Documentation	22 - 24 September 2023
Non-Compulsory Briefing Session	02 October 2023,10h00am
Deadline for clarification questions	20 October 2023
Final response to clarification questions	23 October 2023
Closing date for submissions	27 October 2023, 16h00pm