

RFQ DOCUMENTS

For The

PROVISION OF CACHE FILL AND CDN MANAGEMENT AT THE MIX

For The

MALAWI INTERNET SERVICE PROVIDERS ASSOCIATION (MISPA)

Subject of Procurement:

Provision of Cache Fill and CDN Management at the Mix

Submission Date:

15th JANUARY 2022

SUBMITTED BY:

MALAWI TELECOMMUNICATIONS LIMITED (MTL)

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Malawi Telecommunications Limited

HEAD OFFICE

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Customer care

The Chairman

Malawi Internet Service Providers Association (MISPA)

c/o Malawi SDNP, Room 21, Polytechnic Road

P.O Box 31762

Chichiri, Blantyre 3

Malawi

Dear Sir,

RE: PROPOSAL FOR THE PROVISION OF CACHE FILL AND CDN MANAGEMENT AT THE MIX

Malawi Telecommunications Limited (MTL) would like to express our sincere gratitude to Malawi Internet Service Providers Association (MISPA) for inviting us to submit our proposal for the provision of the above captioned service.

Having examined the requirements of your organization we have compiled an offer set forth in the technical and financial proposal.

We shall supply the services to your organization within thirty days from the date the contract is signed.

Should you require more information please do not hesitate to contact the undersigned.

Yours faithfully,

HARRY GOMBACHIKA

CHIEF EXECUTIVE OFFICER

Malawi Telecommunications Limited

HEAD OFFICE

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: 80 000 211

Qualification Form

Date: 11th January, 2022

Submitted By: Malawi Telecommunications Limited

1. The work performed providing Services of a similar nature and value over recent years is:

| No | Name of Client | Type of Work Performed | Duration and Dates of Contract | Value of contract (Per Annum) MWK |
|----|---|---|-----------------------------------|---|
| 1 | National Bank of Malawi | Provision of Internet services and VPN Data Links | 2019- Current | 1.2 billion |
| | Directorate of Road Traffic and Safety Services | Provision of Internet and VPN Data Links | 2021- Current | 336 million |
| 2 | Reserve Bank of Malawi (RBM) | Provision of Internet services and VPN Data Links | 2014-Current | 220 million |
| 3 | Standard Bank Malawi Provision of Interne services and VPN Data Links | | 2017-Current | 336 million |
| 4 | My Bucks bank Corporation | Provision of Internet services and VPN Data Links | 2018-Current | 216 million |
| 5 | Malawi Revenue Authority | Provision of internet services and VPN Data Links | 2010-Current | 180 million |

2. The qualifications and experience of key personnel proposed for administration and execution of the Contract are:

| Position | Name | Years of Experience (general) | Year of Experience in proposed position | | |
|------------------------------|-----------------------------|-------------------------------|--|--|--|
| Regional Business Manager | Gift Chapuma | 15years | 4 years | | |
| Senior IP Engineer | Thokozani Peter Kangunga | 15 years | 10years | | |
| Project Management | Fredrick Mswayo | 25 years | 18 years | | |

- 4. Banks that may provide references if contacted by the Procuring Entity are: *National Bank of Malawi and Standard Bank*
- 5. Additional qualification information is attached, as required.

We, the undersigned, declare that

- (a) The information contained in and attached to this form is true and accurate as of the date of bid submission.
- (b) The originally submitted pre-qualification information remains essentially correct as of the date of bid submission.

Signed:

Name: Dr Harry Gombachika,

In the capacity of Chief Executive Officer Duly authorised to sign the Qualification Form for and on behalf of Malawi Telecommunications Limited

Dated on 13 day of JANUARY 2022

Malawi Telecommunications Limited

HEAD OFFICE

Lunjika House Off Moi Road PO. Box 537 BLANTYRE MALAWI



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: +265 (0) 1 846 977

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Customer care : 80 000 211

Price Schedule

Date: 11th January 2022

Submitted by: Malawi Telecommunications Limited

a. 100Mbps Transit

| Item No. | Description | Quantity | Unit Price | Total Price |
|-------------|---|-----------------------|---------------------------------|------------------|
| 1 | Cache Fill and CDN Management at Mix | 100Mbps | MWK 35,062.50 | MWK 3,506,250 |
| | | | Sub Total | MWK 3,506,250.00 |
| | | | Excise Duty (10%) | MWK 350,625.00 |
| | | | Sub Total | MWK 3,856,875.00 |
| | | | VAT (16.5%) | MWK 636,384.38 |
| | | | Total (Monthly Recurring) | MWK 4,493,259.38 |
| | | Free- Installation | | |
| | | | Grand Total (Monthly RFQ Price) | MWK 4,493,259.38 |

b. 200Mbps

| Description | Quantity | Unit Price | Total Price |
|---|-----------------------|--|---|
| Cache Fill and CDN Management at Mix | 200Mbps | MWK 33,000.00 | MWK 6,600,000.00 |
| | | Sub Total | MWK 6,600,000.00 |
| | | Excise Duty (10%) | MWK 660,000.00 |
| | | Sub Total | MWK 7,260,000 |
| | | VAT (16.5%) | MWK 1,197,900,00 |
| | | Total (Monthly Recurring) | MWK 8,457,900.00 |
| | Free- Installation | | |
| | | Grand Total (Monthly RFQ Price) | MWK 8,457,900.00 |
| | Cache Fill and CDN | Cache Fill and CDN Management at Mix 200Mbps Free- | Cache Fill and CDN Management at Mix Sub Total Excise Duty (10%) Sub Total VAT (16.5%) Total (Monthly Recurring) |

c. 250Mps

| Item No. | Description | Quantity | Unit Price | Total Price | | | |
|-------------|---|-----------------------|---------------------------------|------------------|--|--|--|
| 1 | Cache Fill and CDN Management at Mix | 250Mbps | MWK 30,937.50 | MWK 7,734,375.00 | | | |
| | | | Sub Total | MWK 7,734,375.00 | | | |
| | | | Excise Duty (10%) | MWK 773,437.50 | | | |
| | | | Sub Total | MWK 8,507,812.50 | | | |
| | | | VAT (16.5%) | MWK 1,403,789.06 | | | |
| | | | Total (Monthly Recurring) | MWK 9,911,601.56 | | | |
| | | Free- Installation | | | | | |
| | | | Grand Total (Monthly RFQ Price) | MWK 9,911,601.56 | | | |

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|----------|-----|----------|
| Signed | The | |
| Mamai Di | | L 1 . 91 |

Name: Dr Harry Gombachika

In the capacity of Chief Executive officer

Duly authorised to sign the bid for and on behalf of Malawi Telecommunications Limited

Dated on 13 day of TANU May, 2022



TECHNICAL PROPOSAL FOR PROVISION OF CACHE FILL AND CDN MANAGEMENT AT THE MIX

TO

MALAWI INTERNET SERVICE PROVIDERS ASSOCIATION (MISPA)

11TH JANUARY 2022

| Abbreviation/Acronyms | Description |
|-----------------------|---|
| IXP | Internet Exchange Point |
| ISOC | Internet Society |
| CDN | Content Delivery Network |
| NOC | Network Operation Centre |
| MISPA | Malawi Internet Service Providers Association |
| ASN | Autonomous System |
| IP | Internet Protocol |
| SNMP | Simple Network Management Protocol |

2.1. Project Background

Malawi Internet Service Providers Association operates the Malawi Internet Exchange (MIX) located at College of Medicine in Blantyre. MISPA, with funding from ISOC has a 36 months project effective March 2021 for the transit connection to MISPA CDNs.

MISPA is requesting for eligible Service Providers in Malawi to provide IP transit connection to fill, update the cache and manage transit capacity to CDN's at MIX

Successful service provider will provide a dedicated IP transit from the global internet to CDN's at MIX.

2.2. Project Focus

Overall aim of the project is to improve latency and speed of content delivery to internet users in Malawi through the service providers who participate and subscribe at MIX.

This brings many benefits to participating service providers, Internet users and the nation by having content served locally. The project will assist to improve connectivity, efficiency and conserve individual service providers upstream bandwidth. Currently MISPA through MIX is managing the following CDNs currently operational at the MIX; Google Global Cache (GGC), Akamai and Facebook. And the proposed dedicated IP transit will ensure all these CDNs are constantly updated through a reliable internet link.

2.2. Project Scope

- Physical connectivity, both locally and physically.
- IP Addressing, Peering and Routing

- · Network interface and technical specifications
- Technical requirements
- Testing and acceptance procedures
- Delivery Schedule
- Maintenance, support, fault management and service restoration
- · Service level monitoring and reporting

2.3. Project Focus

MTL proposal is under the following assumptions:

- MTL will present an IP interface with IP traffic to the MISPA., who will in turn be responsible
 for setting up their own internal connectivity.
- Equipment power and cabinet will be provided by MISPA at MIX equipment room.
- IP routing, Security and control measures to service providers will be setup by MISPA.
- The new connectivity will perform within the service level agreements agreed between MISPA and MTL.
- MTL will provide point to point public IP addresses both IPV4 and IPV6 to MISPA. Any extra
 IP address will be shared upon MISPA request.
- MTL will be responsible for connectivity between MIX towards the internet.

2.4. Connectivity Proposal

MTL has four internet upstream providers in total, two are terrestrial links connecting through Tanzania and Mozambique. And remaining two are aerial links through Zambia. Connectivity through to Zambia boarder is through resilient Escom fiber through electricity power lines. This cable runs direct to our IGW POPs both in Lilongwe City Centre exchange and Blantyre exchange. Terrestrial links through Tanzania and Mozambique links are through OCL.

Tanzania network feeds into the EASSy Indian Ocean submarine cable at Dar-es-Salaam, then on to Europe and currently has 465Mbps of bandwidth. For high availability of services Mozambique link is fed through two legs into MTL, through the Mulanje and Mwanza border. This link has bandwidth of 310Mbps. The third link is through Zambia connecting to Telecom Namibia at bandwidth of 465Mbps this link is connected through Zesco cable. And finally, connection to Cogent which is also through

Zambia route is at bandwidth of 465Mbps. This is connected through Zamtel in Zambia, this cable interconnects with Escom from Chipata through to Zimbabwe boarder to Teraco.

All links through Zambia are through two different backhaul service providers which provides high availability of services.

Combination of four international internet upstream links provides high availability of internet services into MTL. In the pipeline MTL is also working on upgrading internet capacity through Zambia side to 2Gbps within February 2022 through Liquid Telecom.

MTL solution, proposes connecting MISPA to Western Coast of Africa Submarine Cable through either Cogent, Telecom Namibia or Liquid Telecom Teraco datacentre. This being a primary link it will be protected by Mozambique or Tanzania in case all western side connections fails.

Below table contains the physical and data link connectivity for MISPA to MTL POP.

| Customer Site | Connects to | Medium | Subscribed Capacity | Link Capacity | MISPA Interface |
|---------------------------------------|--------------------------|----------|------------------------|---------------|-----------------|
| MISPA – MIX College of Medicine | MTL Chichiri exchange | Fiber | 100Mbps – 250Mbps | 1G | 1GBASE-SR |
| MISPA – MIX College of Medicine | MTL Stadium exchange | Wireless | 100Mbps – 250Mbps | 500Mbps | 1GBASE-SR |

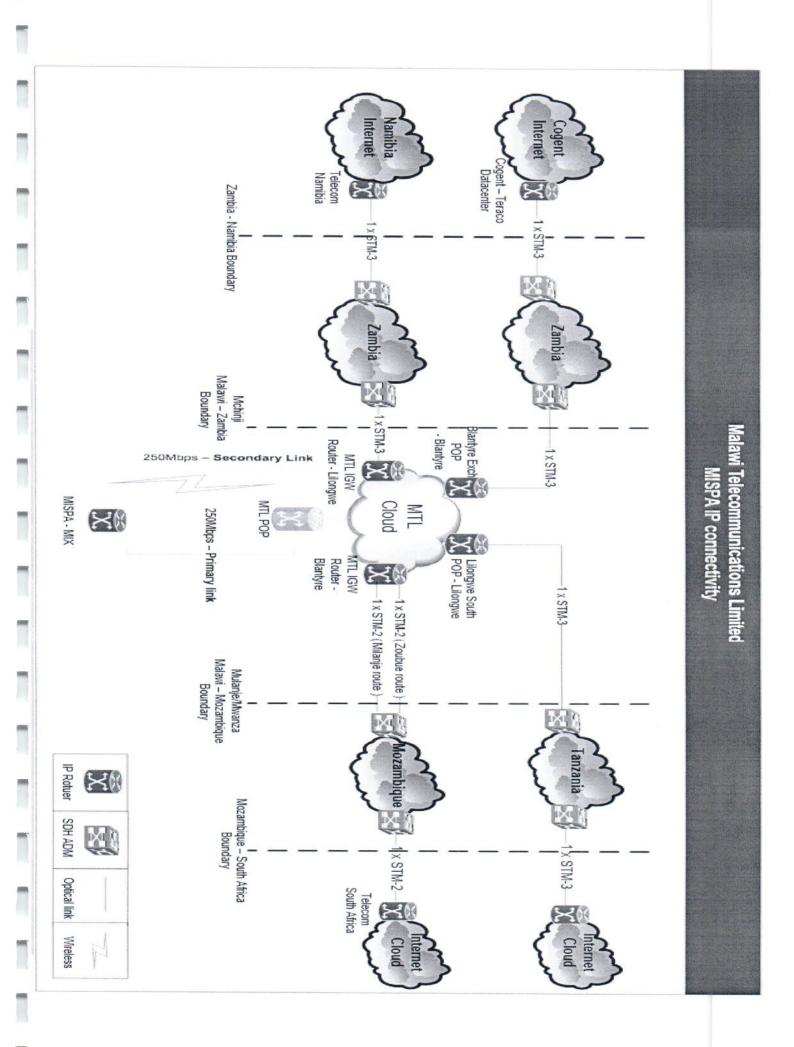
2.5. Physical Connectivity

Proposed solution is designed with focus to not only deliver quality services but also deliver high availability of services.

For high availability of services between MTL IP core to MISPA connection, the design is to have two last mile links installed towards MIX which will be terminating from different POPs on MTL side. Primary link will be on fibre from Chichiri MTL POP to MIX and secondary link will be wireless from Stadium Complex POP through to MIX. Proposal of using wireless link from Stadium exchange and fibre from Chichiri exchange will enable protection both connectivity and IP node level.

MTL has MPLS network within Blantyre which is protected in a ring and guarantees high availability of services.

Below diagram shows proposed topology.



2.6. IP Addressing, Peering and Routing

The assumption is that MISPA does have own ASN and public IP address block from Afrinic.

With the assumption MTL will provide MISPA point to point public IPV4 and IPV6 address to enable point to point connectivity to MISPA.

MTL already has a BGP peering session with all upstream service providers, this enable MISPA traffic to immediately reach all global networks once it lands in MTL network.

2.7. Technical Requirements, Network Interface and Technical Specification

- MTL will handover optic connection to MISPA through 1G Interface and can be upgraded to 10G upon request. MTL will also provide wireless link as a redundant link.
- Quality of service mechanisms will be deployed to support differentiated data services with clearly defined guaranteed bandwidth requirements.
- Traffic profile and network structure will be engineered to meet MISPA requirements.
- MTL will provide dedicated symmetrical bandwidth to MISPA.
- The network will perform within the service level agreements agreed between MISPA and MTL
- Quality of service mechanisms will be deployed to support differentiated data services with clearly defined guaranteed bandwidth requirements.
- IP transit link will have no limitation and will be capable of conveying voice, images, sounds,
 video, data and all other IP-based telecommunications
- MTL will manage IP transit services.
- All MTL equipment and software will employ and support the IPv4 and IPv6 standards.

2.8. Testing and Acceptance Procedures

MTL, upon completion of services will conduct joint test with MISPA technical experts. Both teams will go through deliverables checklists prior to final service acceptance tests.

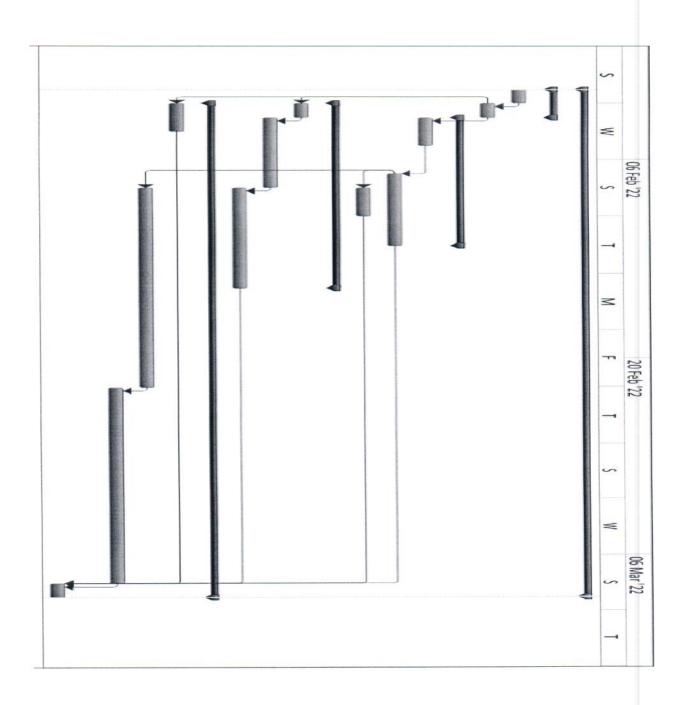
MTL has a procedure of signoff forms upon completion of works, both MTL and MISPA will have to sign form upon satisfaction of delivered services.

2.9. Delivery Schedule

Upon signing the contract IP transit implementation will take 30 days to be executed. The works are split into 3 phases namely

- Fibre installation
 - This is the primary link to MISPA
- Radio Installation
 - o This is a redundant link to MISPA hub
- Routing and IP setup
 - o This includes monitoring and fine tuning all emerging issues in the setup.

| 17 | | 16 | 15 | 14 | 13 | 12 | Ħ | 10 | 9 | ∞ | 7 | 6 | S | 4 | w | 2 | ↦ | | 0 |
|---------------------------------------|--------------|---|---|--|--------------------------|--|---|---------------------------------|----------------------------|---------------------------------|----------------------------|---------------------------|-------------------------------------|---------------------------|---------------------------|---------------------------|-------------------------------|---------------|----------------|
| | | Q. | .00 | 00 | O.O | oo | o. | Q.E | QD | .00 | O.O | | ol | O.O | 00 | .00 | ų. | O Mode | Task |
| Signoff services after succesful tets | connectivity | Testing monitoring end to end between MTL and MISPA logical | Peering configurations with MTL and MISPA and testing | Peering agreements between MTL and MISPA | Routing and IP setup | Radio monitoring testing and commissioning | Installation of radios both MTL tower and MIX | Radio Installation Preparations | MISPA - RADIO Installation | Switch Installation and testing | Cable laying & termination | Ground works preperations | MISPA - Fiber Installation Activity | Contract Signed | Contract awarded | Contract | MISPA IP TRANSIT CONNECTIVITY | | Task Task Name |
| 1 day | | 10 days | 10 days | 2 days | 25 days | 5 days | 3 days | 1 day | 9 days | 2 days | 5 days | 2 days | 7 days | 1 day | 1 day | 2 days | 26 days | | Duration |
| Tue 08/03/22 Tue 08/03/22 | | Tue 22/02/22 Mon 07/03/22 | Tue 08/02/22 Mon 21/02/22 | Wed 02/02/27Thu 03/02/22 | Wed 02/02/2:Tue 08/03/22 | Tue 08/02/22 Mon 14/02/22 | Thu 03/02/22 Mon 07/02/22 | Wed 02/02/2; Wed 02/02/22 | Wed 02/02/2; Mon 14/02/22 | Tue 08/02/22 Wed 09/02/22 | Mon 07/02/22 Fri 11/02/22 | Thu 03/02/22 Fri 04/02/22 | Thu 03/02/22 Fri 11/02/22 | Wed 02/02/22 Wed 02/02/22 | Tue 01/02/22 Tue 01/02/22 | Tue 01/02/22 Wed 02/02/22 | Tue 01/02/22 Tue 08/03/22 | | Start |
| | | | | | | | | | | | | | | | | | | - | 23 Jan 22 |



2.11. Quality of service

Quality of Service (QoS) mechanisms is employed in the core network to guarantee the contracted bandwidth and contention ratios for MISPA link. MTL will deploy rate limiting mechanisms to ensure that MISPA traffic does not exceed the agreed contractual rate.

2.12. Network Management and Monitoring

MTL has a Network Operations Centre (NOC) located in Blantyre that monitors the MTL infrastructure on a 24x7 basis. In addition, the NOC has network management experts who are available during working hours and on stand-by during non-working hours, holidays and weekends.

MTL shall provide a web interface where MISPA personnel will have access and monitor utilization of the link. This interface will show the graphical utilization of the customer interface for up to one year.

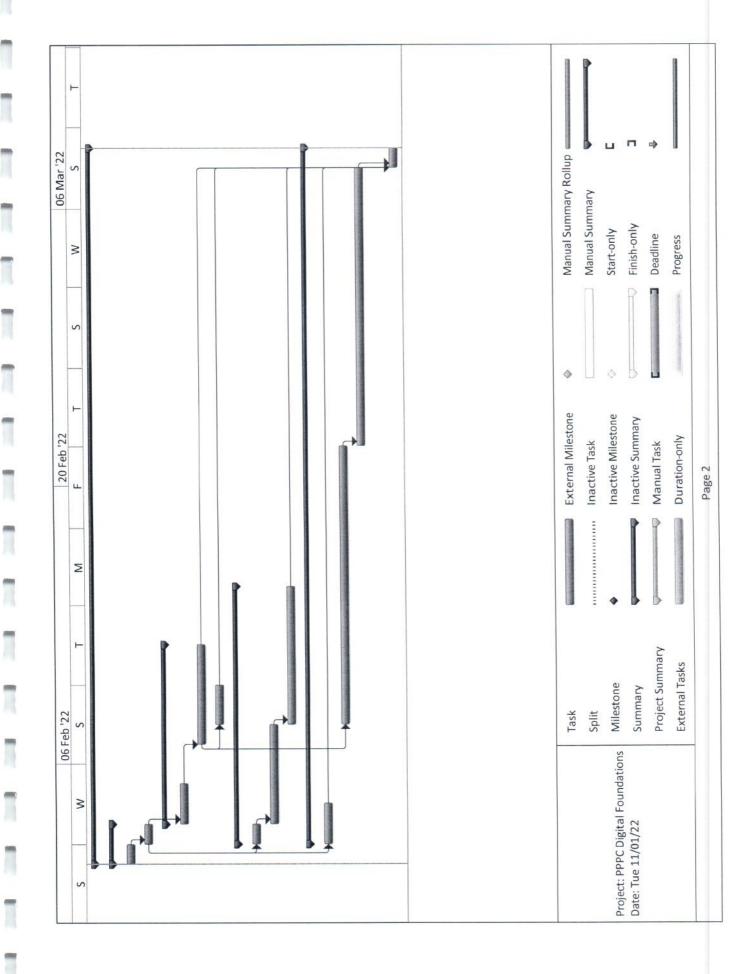
2.13. Fault Management

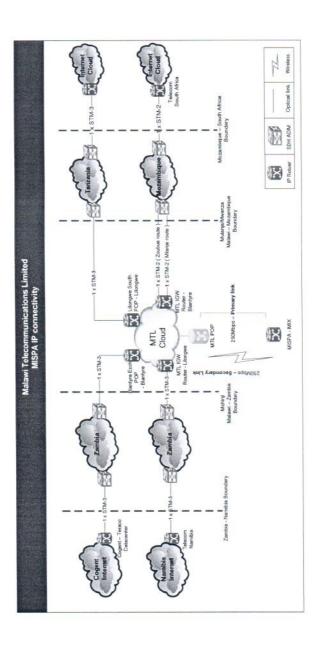
MTL has extensive experience in installing last mile networks. It therefore has a ready pool of resources and experts that work on these links whenever a fault occurs. Teams of experts from our Regional Maintenance Centres work together with the NOC to clear any faults as soon as they occur.

2.14. Availability and uptime

MTL guarantees a service availability of 99.5%. MTL does not make any availability guarantees for network outside it's network or control.

| Н | ge | | | | | | | _ |
|-------|-----------------------------------|---|--------------------|---------|-----------------------------------|-------------------------|-------|---|
| - | | | | | | | | - |
| | | MISPA IP TRANSIT CONNECTIVITY | | 26 days | Tue 01/02/22 Tue 08/03/22 | ue 08/03/22 | | |
| 7 | Contract | | | 2 days | Tue 01/02/22 Wed 02/02/22 | Ved 02/02/22 | | |
| 3 | | Contract awarded | | 1 day | Tue 01/02/22 Tue 01/02/22 | ue 01/02/22 | | |
| 4 | Contract Signed | Signed | | 1 day | Wed 02/02/22Wed 02/02/22 | Ved 02/02/22 | | |
| 2 | | MISPA - Fiber Installation Activity | | 7 days | Thu 03/02/22 Fri 11/02/22 | ri 11/02/22 | | |
| 9 | | Ground works preperations | | 2 days | Thu 03/02/22 Fri 04/02/22 | ri 04/02/22 | | |
| 7 | | Cable laying & termination | | 5 days | Mon 07/02/22Fri 11/02/22 | ri 11/02/22 | | |
| 00 | | Switch Installation and testing | | 2 days | Tue 08/02/22 Wed 09/02/22 | /ed 09/02/22 | | |
| 6 | Σ | MISPA - RADIO Installation | | 9 days | Wed 02/02/2; Mon 14/02/22 | Ion 14/02/22 | | |
| 10 | | Radio Installation Preparations | | 1 day | Wed 02/02/22Wed 02/02/22 | /ed 02/02/22 | | |
| 11 | | Installation of radios both MTL tower and MIX | | 3 davs | Thu 03/02/22 Mon 07/02/22 | Ion 07/02/22 | | |
| 12 | | Radio monitoring testing and commissioning | | 5 days | Tue 08/02/22 Man 14/02/22 | Ion 14/02/22 | | |
| 13 | Ro | d IP setup | | 25 days | Wed 02/02/2: Tile 08/03/22 | IP 08/03/22 | | |
| 14 | | Peering agreements between MTL and MISPA | | 2 days | Wed 02/02/27thu 03/02/22 | CC/CO/20 IT | | |
| 15 | | Peering configurations with MTI and MISPA and testing | | 10 days | Tue 08 (07 /07 M cc) 701 90 | Jan 21/02/22 | | |
| 16 | Testing m | Testing monitoring end to end between MTI and MISPA logical | logical | 10 days | Tue 22/02/22 Mon 07/03/22 | on 07/03/22 | | |
| | | vity | | | 77 /70 /77 00 | 77/50/10110 | | |
| 17 | Signoff se | Signoff services after succesful tets | | 1 day | Tue 08/03/22 Tue 08/03/22 | ue 08/03/22 | | |
| | | | | | | | | |
| | | Task | External Milestone | stone | ♦ | Manual Summary Rollup = | dnllo | |
| | | Split | Inactive Task | | | Manual Summary | | |
| ect | Project: PPPC Digital Foundations | Milestone | Inactive Milestone | stone | 0 | Start-only | u | |
| L | Date: Tue 11/01/22 | Summary | Inactive Summary | mary | B | Finish-only | п | |
| | | Project Summary | Manual Task | | | Deadline | ⇒ | |
| | | External Tasks | Duration-only | > | - Organization of Decision States | Progress | | |
| | | | | | | | | |





Malawi Telecommunications Limited

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Escalation Table & Contact Details

Date: 11th January 2022

| FAULT WITHIN 15 | FAULT WITHIN 1 HR | FAULT WITHIN 1 HR 30 | FAULTMORE THAN 2 |
|--|--|----------------------|--|
| MINUTES | | MINUTES | HRS |
| Corporate Relationship Executive, NOC | HSO, Regional Head, Regional Business Manager, HIS, NOC Manager, HP&I | CCO, COO | CCO, COO, CEO, HIS, HSO, All Regional Heads |

CCO : Chief Commercial Officer

COO : Chief Operations Officer

HIS : Head of Information Services

HSSE: Head of Service Strategy and Engineering

HSO : Head of Service Operations

Commercial

| | Tel No | Mobile No | Email Address |
|----------------------------------|----------|------------|-------------------------|
| Corporate Relationship Executive | 01874111 | 0882967863 | Nyasha.chidoola@mtl.mw |
| Regional Business Manager | 01878533 | 0882967841 | Gift.chapuma@mtl.mw |
| Head of Customer Relationship | 01876458 | 0882967853 | Elias.kaunda@mtl.mw |
| Chief Commercial Officer | 01875720 | 0882967658 | Gladson.kuyeri@mtl.mw |
| Chief Executive Officer | 01875724 | 0882967655 | Harry.gombachika@mtl.mw |

Technical

| | Tel No | Mobile No | Email Address |
|--|----------|------------|-------------------------|
| NOC | 01873993 | 0882967796 | noc@mtl.mw |
| NOC Manager | 01873652 | 0882967715 | Edward.nkhata@mtl.mw |
| Head of Service Operations and Network Maintenance | 01880435 | 0882967680 | Fredrick.mswayo@mtl.mw |
| Chief Operating Officer | 01875651 | 0882967660 | Patrick.magawa@mtl.mw |
| Chief Executive Officer | 01875724 | 0882967655 | Harry.gombachika@mtl.mw |



GOVERNMENT OF MALAŴI

COMPANIES ACT (No. 19 OF 1984)

Company Registration No. 5601

CERTIFICATE OF INCORPORATION

(SECTION 15)

| of | MALAWI TELECOMMUNICATIONS LIMITED | | | |
|------|--|--|--|--|
| | (Private/Public Company) | | | |
| | I hereby certify that the above-named company has this day | | | |
| beer | incorporated under the Companies Act, 1984, and that the | | | |
| com | pany is limited. | | | |
| | Given under my hand at Blantyre, Malaŵi, this THIRTIETH | | | |
| day | of MAY ninetoon hundred and TWO THOUSAND | | | |
| | | | | |
| | | | | |
| | F.E. CHIBISA Signed: | | | |
| | FOR: Registrar of Companies (Official Stamp) | | | |
| R.G. | REGISTRAR OF COMPANIES 30 MAY 2000 P.O. BOX ION BLANTINE | | | |



MALAWI REVENUE AUTHORITY

WITHHOLDING TAX EXEMPTION CERTIFICATE

WTEC No: 39603

Valid only for payments made between 01/07/21 to 31/03/22

| Name of holder | MALAWI TELECOMMUNICATIONS LTD | | | | |
|--------------------------------|---|--|--|--|--|
| Postal Address | PD BOX 587 | | | | |
| | BLAMTYRE | | | | |
| | | | | | |
| Taxpayer Id. No. | 20160230 | | | | |
| Nature of income in r | espect of which this exemption is issued | | | | |
| | (a) FIXED & MOBILE VOICE SERVICES & CO-SITING SE | | | | |
| | (b) DATA COMMUNICATION SERVICES INCUIDING INTERES | | | | |
| Designation of Issuing Officer | (c) INTERMATIONIAL COMMECTION SERVICES, IMPORTS (d) VALUE ADDED SERVICES, SALE OF PREPAID CAPI (e) SALE OF DATA & VOICE ACCESS EQUIPMENT : Station Manager Commissioner General | | | | |
| Signatures | COMMISSIONER GENERAL'S OFFICE CG WATTHE STAMP NET AUTHORITY 2 9 JUN 2021 | | | | |
| | PRIVATE BAG 247 BLANTYRE | | | | |

NOTES:

⁽¹⁾ This Certificate authorizes payment to the holder of the full amount of payment to which section 102A of the Act applies without deduction there from of withholding tax.