



JANUARY 28, 2021

USER GUIDELINE

IPCONNECT

TBSAP



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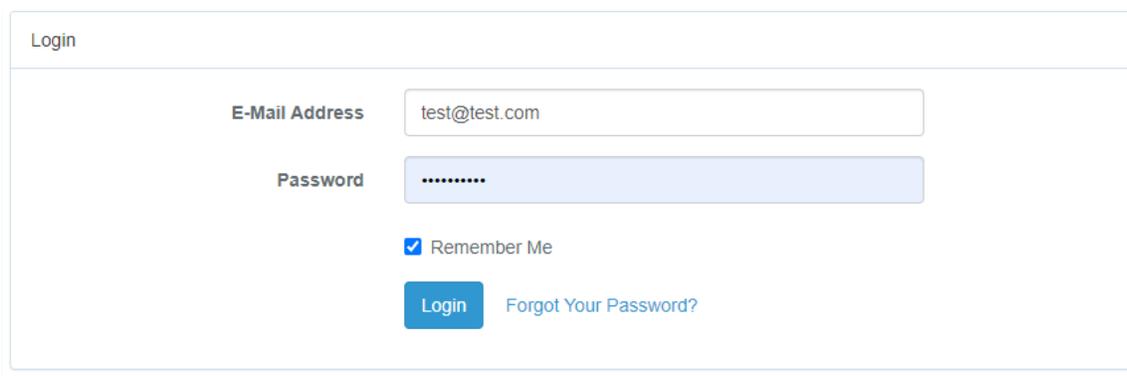
Purpose of this Manual

The purpose of this manual is to guide the “Facility Risk Assessor” with every know-hows of assessing the risk associated with a facility using this system. In addition, an important reason is to ensure consistency and to help reduce variation within a given process, gain user cooperation, compliance, and help instilling a sense of direction and urgency in assessor.

Login as a registered user to IPConnect platform

Clicking on Login link will open the Login page as shown below in the Steps to Login:

1. Type the registered email address.
2. Type the password (case-sensitive)
3. Click on the Login button.



The screenshot shows a login form with the following elements:

- Page title: Login
- Label: E-Mail Address, Input: test@test.com
- Label: Password, Input: (masked)
- Checkbox: Remember Me
- Buttons: Login (blue), Forgot Your Password? (text link)

Figure 1: Login page

Retrieve the Forgotten Password

To retrieve the forgotten password, follow the below steps:

1. On the Login page (follow Login section), click **Forgot Your Password?** as shown in *figure 3*; the Password Reset page will appear as shown in *figure 4*
2. Type your registered email address
3. Click on the Send Password Reset Link button

Figure 2: Retrieve password

Figure 3: Reset password

A password reset link will be sent to the email address given. Clicking on the link will allow the user to reset the old password with a new one.

Change Existing Password

To change the existing password, follow the below steps:

Figure 4: Change password manu

1. Login to the ipconnect-sa portal following the steps described in Login section; Click on the <<user-name>> ⇒ **Change Password** located at the Right corner of the top-menu as shown in figure 5; the “Change Password” page will be appeared as shown in figure 6
2. Type the existing password

3. Type the expected new password.
4. Again type the existing password for confirmation
5. Click on Update button

Change Password

Old Password

Password

Password must be at least 6 characters long and must contain at least one uppercase letter, number and special character.

Confirm Password

Figure 5: Change password

Administration of IPConnect application platform

The role of the administrator of the IPConnect platform is overall management of the platform including:

- User roll management
- User management
- Manage Administrative units
- Content management
- Data security

“Settings” menu item is only available to the admin users. The admin users have access to the features to make major changes to the IPConnect platform without editing the codes. The changes including:

- Role and user management, which is key to data privacy and security
- Manage lookup table values: administrative units
- Add, edit, and modify resources and pages.

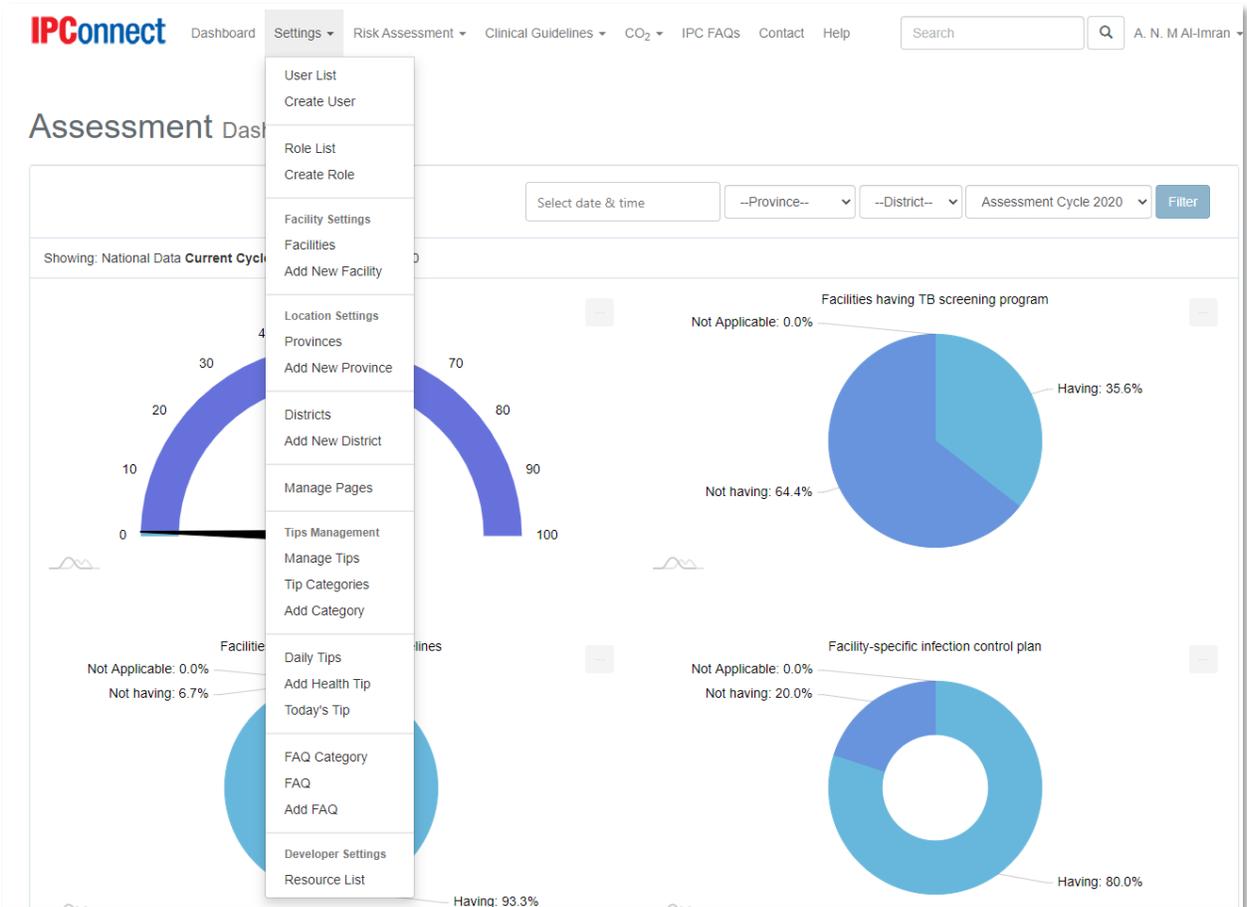


Figure 6: Admin settings

User roll management: Roll management is the key to data privacy and security first step of access control of a software platform. This feature allows to ensure that the right person has access to the right data, considering the importance of health data privacy. Under settings menu, an admin user can view, create, edit and delete user rolls and assign access to different features of the application.

Home / Role / List

Role List Create New

#	Name	Operation
1.	Developer	Edit Delete
2.	Default	Edit Delete
3.	Supervisor	Edit Delete
4.	General	Edit Delete
5.	Administrator	Edit Delete
6.	Nomakhaya Matutu	Edit Delete
7.	Neliswa Soxa	Edit Delete

Figure 7: Roll management

New Role

Name

Ajax Ajax GET::Feed

Facility-Facility

- Can see edit facility form
- Can see the list of facilities
- Can save edited facility form
- Can save create facility form data
- Can delete a facility
- Can activate or deactivate a facility
- Can see create facility form

User-User

- Can save a edited user
- Can save create user form data
- Can see edit user form
- Can see the list of users
- Can reset own password
- Can activate or deactivate a user
- Can delete a user
- Can see create user form

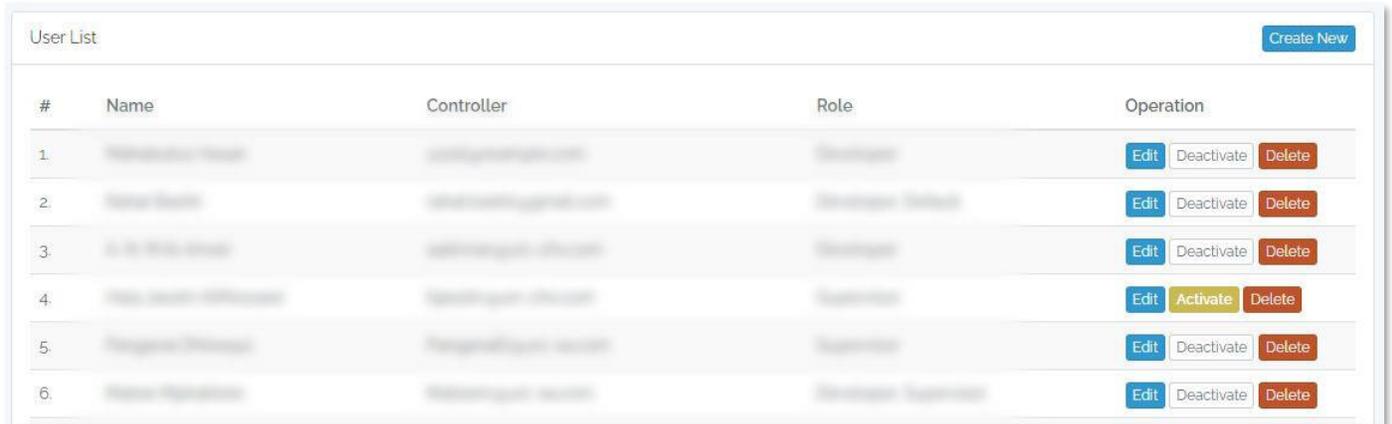
Guideline-Guideline

- Can activate or deactivate a guideline
- Can save the create guideline form
- Can see the list of guidelines

Figure 8: creation of rolls

It is important for the Administration to have knowledge and experience in role manage.

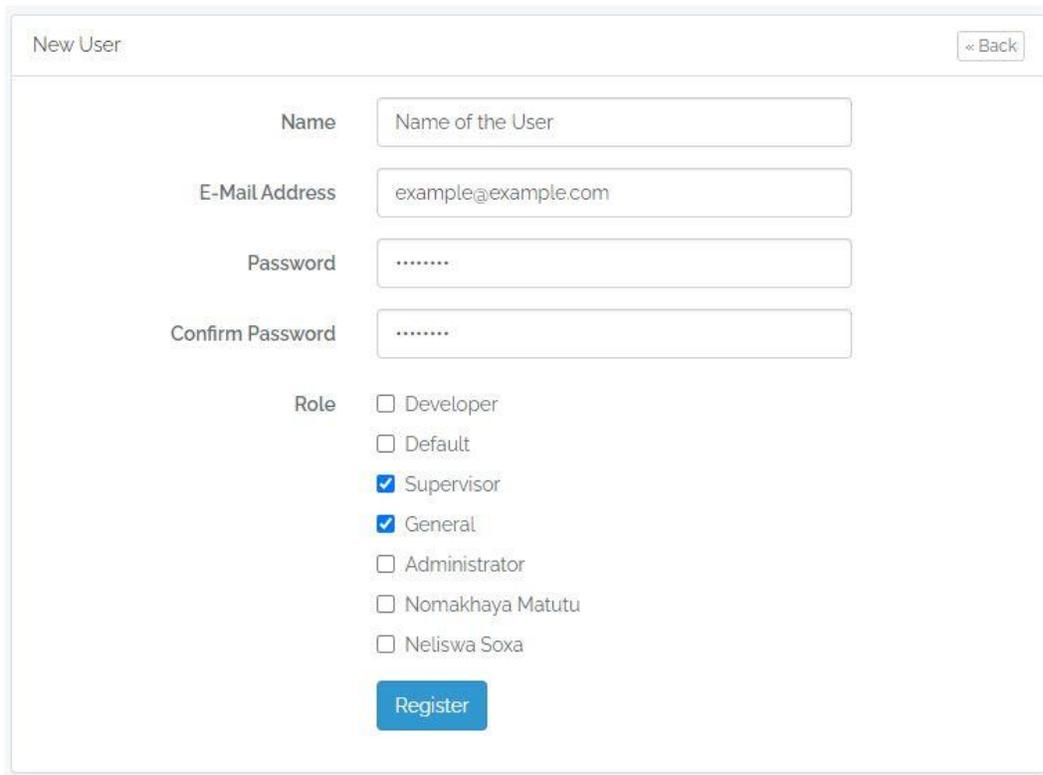
User management: The second step of the access control is user management, which should be done by an admin user. This option is available under “Settings” menu, which allows to view, create, edit and delete user.



#	Name	Controller	Role	Operation
1.	[Name]	[Controller]	[Role]	Edit Deactivate Delete
2.	[Name]	[Controller]	[Role]	Edit Deactivate Delete
3.	[Name]	[Controller]	[Role]	Edit Deactivate Delete
4.	[Name]	[Controller]	[Role]	Edit Activate Delete
5.	[Name]	[Controller]	[Role]	Edit Deactivate Delete
6.	[Name]	[Controller]	[Role]	Edit Deactivate Delete

Figure 9: User management

To create a new user, admin user needs to click on the “Create User” menu item under Settings menu or “Create New” button from the User List page. The next step is to fill out user information and selecting role for the user. There is no restriction on number of roles to be granted to a user.



New User ← Back

Name

E-Mail Address

Password

Confirm Password

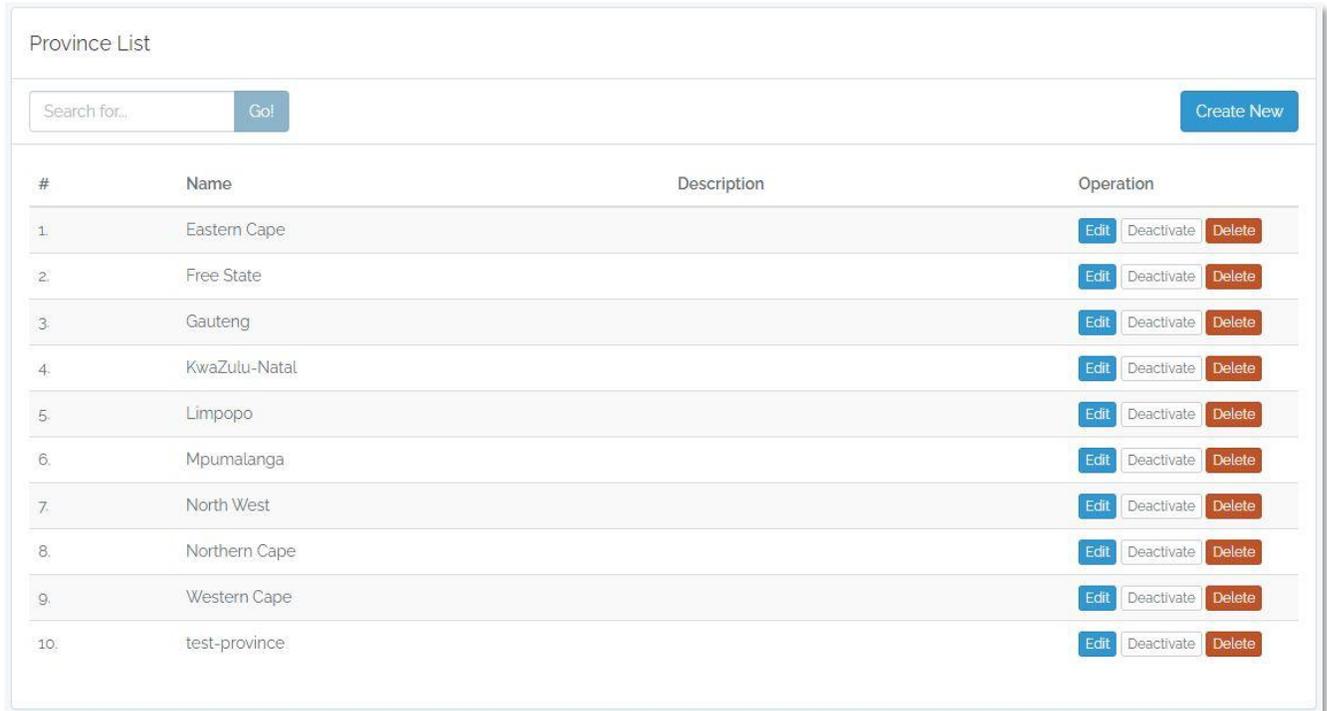
Role

- Developer
- Default
- Supervisor
- General
- Administrator
- Nomakhaya Matutu
- Neliswa Soxa

[Register](#)

Figure 10: User creation

Manage Administrative units: The Administrative unit management feature allows to view, add, edit and delete administrative units including Province, District and Health Facilities.



#	Name	Description	Operation
1.	Eastern Cape		Edit Deactivate Delete
2.	Free State		Edit Deactivate Delete
3.	Gauteng		Edit Deactivate Delete
4.	KwaZulu-Natal		Edit Deactivate Delete
5.	Limpopo		Edit Deactivate Delete
6.	Mpumalanga		Edit Deactivate Delete
7.	North West		Edit Deactivate Delete
8.	Northern Cape		Edit Deactivate Delete
9.	Western Cape		Edit Deactivate Delete
10.	test-province		Edit Deactivate Delete

Figure 11: List of Provinces

To manage list of Provinces, click on the “Provinces” submenu menu under “Settings” menu item to open “Province List” page. On this page the admin users will be able to edit, deactivate or delete Provinces. “Create New” button located on the top right corner of the list will open a new page for creating new province as the figure below:



Create Province [Back](#)

Name

Description

[Create](#)

Figure 12: Create new Province

Similarly, user will be able to access list of Districts by clicking on the “Districts” submenu under “Settings” menu item. This page will allow the admin users to edit, deactivate and delete Districts.

District List

Search for...

#	Province	Name	Description	Operation
1.	Eastern Cape	Nelson Mandela Bay Metropolitan Municipality		<input type="button" value="Edit"/> <input type="button" value="Deactivate"/> <input type="button" value="Delete"/>
2.	Eastern Cape	Alfred Nzo District Municipality		<input type="button" value="Edit"/> <input type="button" value="Deactivate"/> <input type="button" value="Delete"/>
3.	Free State	Fezile Dabi District Municipality		<input type="button" value="Edit"/> <input type="button" value="Deactivate"/> <input type="button" value="Delete"/>
4.	Free State	Lejweleputswa District Municipality		<input type="button" value="Edit"/> <input type="button" value="Deactivate"/> <input type="button" value="Delete"/>
5.	Free State	Mangaung Metropolitan Municipality		<input type="button" value="Edit"/> <input type="button" value="Deactivate"/> <input type="button" value="Delete"/>

Figure 13: List of Districts

To add a new District, click on the “Create New” on the top right corner of the list will open a new page for creating new District, which is slightly different from the Province creation. Before typing the name of the District, administrator need to select the Province from the list to ensure that, the District is created under the selected Province.

Create District

Province

Name

Description

Figure 14: Create District page

Admin users will be able to access the list of Health Facilities by clicking on the “Facilities” submenu from the “Settings” menu item. This page will allow the admin users to edit, deactivate and delete Health Facilities.

To add a new Health Facility, click on the “Create New” on the top right corner of the list will open a new page for creating new Health Facility, which is different form the process creation of Province and District. This page requires some additional information including name of Province and District needs to be defined to ensure that the Health Facility is created under right location.

Create Facility
« Back

Facility

Name *

Photo No file chosen

Province * ▼

District * ▼

Town *

Street

Address *

Phone *

Specialization *

Facilitator ▼

Engaged with Project *

Contact Person

Contact Person *

Email *

Mobile *

Figure 15: creation of Health Facility

Content management: Users with admin access can make changes to the contents of this application including: Pages, Guidelines, FAQs and Health Tips.

To edit pages, select “Manage Pages” submenu from the “Settings” menu item and click on “Change” button located next to the page name need to be edited.

Page List		
#	Page Name	Operation
1.	Home	Change
2.	Terms and Conditions	Change
3.	About Us	Change
4.	Contact Us	Change

Figure 16: Page management

Management of Guidelines, FAQs and Health Tips are described in the sections below.

Facility Assessment:

Risk Assessment tool Overview

South Africa has launched a major effort to strengthen occupational health for healthcare workers and safeguard the health of patients and others visiting health facilities. Strengthening administrative infection prevention and control (IPC) procedures will help reduce TB and other infections in healthcare facilities. The Risk Assessment module in ipconnect-sa portal will help strengthen administrative IPC procedures and allow National Department of Health staff gather and analyze data for improved occupational health through targeted IPC resources and response. Healthcare staff are given access to ipconnect-sa applications based on staff needs and duties and vary by application.

The Facility Risk Assessment tool allows supervisors/assessors to quickly and accurately input specific IPC-related observations such as infrastructure, staffing, waste management, etc. and flag areas for follow-up.

Introduction to Assessment Menu

Successfully login will take the Assessor to the home page of ipconnect-sa portal. Where the “Assessment” module menu is available in the top menu bar as shown in figure 17



Figure 17: Assessment menu

The Assessment menu contains four sub-menu items for the assessor. They are:

1. “Assessment Cycles” menu opens the list of available created and configured cycles of assessment.
2. “All Assessments” opens a page with the list of facilities where the assessment activities has been completed.
3. “Assess Facilities” opens a page with all the facilities. The Assessor will search the facility of interest and identify it to start a new assessment in it.
4. “Dashboard” will take the Assessor to the dashboard of the risk assessment module.

View Assessment Cycles

Steps to View:

1. Click Assessment ⇒ Assessment Cycles
2. Assessment Cycle List page will appear as shown in the figure 18

Assessment Cycle List Create New				
#	Name	Description	Date Range	Operation
3.	Assessment cycle 2018		N/A	Edit Completed Deactivate Delete
4.	Assessment cycle 2019	cycle for 2019	N/A	Edit Completed Deactivate Delete
5.	Assessment Cycle 2020	Cycle 2020	Jan 1, 2020 - Dec 31, 2020	Edit Complete Deactivate Delete

Figure 18: Assessment cycle

View Score of a Completed Assessment

Steps to View:

1. Click Assessment ⇒ All Assessments.
2. A list of facilities will appear where the risk assessments have been completed for the current assessment-cycle as shown in figure 18
3. Click “Assessments” button located at the right side of the facility of interest as shown in figure 19

Assessed Facilities										
Cycle	Assessment Cycle 2020	Select date & time		Province	--Province--	District	--District--	Facility name...		Go!
#	Name	Province	District	Operation						
1.	Afsondering Clinic	Eastern Cape	Alfred Nzo District Municipality	View Assessments						
2.	Algoa Park Clinic	Eastern Cape	Nelson Mandela Bay Metropolitan Municipality	View Assessments						
3.	Batho Clinic	Free State	Mangaung Metropolitan Municipality	View Assessments						
4.	Bela-Bela Clinic	Limpopo	Waterberg District Municipality	View Assessments						

Figure 19: Completed assessments.

4. A list of completed assessments under that facility will be opened as shown in figure 10; each row represents a completed assessment; Click “View Score” button to see the score in detail.

Assessments of Bela-Bela Clinic Compare Assessments ← Back			
#	Assessor	Assessment Date	Operation
1	Melita Mafeto	2020-07-22 9:30 AM	View Score
2	Tinyiko Baloyi	2018-11-01 8:41 PM	View Score

Figure 20: Score

Assess Risk of a Facility (first time)

Steps to Assess:

1. Click Assessments ⇒ Assess Facilities; a list of available registered facilities will be appeared as shown in figure 21;
 - A. Search Criteria to identify and locate the health facility of interest.
 - B. “Unlock” button for re-assessment of a facility. This button will be appeared for the facilities where at least one assessment has been conducted and completed.
 - C. “Edit Draft” button will appear for the facilities where the assessment has been started but saved the unfinished work as draft.
 - D. “Start Assessment” button to assess a facility. This button will appear for the facilities where no assessment had been conducted yet.

Facility List				
Province: <input type="text" value="Gauteng"/> District: <input type="text" value="City of Johannesburg Metropolitan Municipality"/> Facility: <input type="text" value="Search for..."/> <input type="button" value="Filter"/>				
#	Name	Province	District	Operation
1.	17 Esselen Str Clinic	Gauteng	City of Johannesburg Metropolitan Municipality	<input type="button" value="Start Assessment"/>
2.	4th Avenue Clinic	Gauteng	City of Johannesburg Metropolitan Municipality	<input type="button" value="Start Assessment"/>
3.	80 Albert Str Clinic	Gauteng	City of Johannesburg Metropolitan Municipality	<input type="button" value="Start Assessment"/>

Figure 21: Select facility for assessment.

2. Using the search criteria to identify a facility of interest to perform an assessment.
3. Click Start Assessment button located at the right side of a facility of interest; the questionnaire for the assessment will appear as shown below in figure 13.
4. Fill out the questionnaire; and click on “Save as Draft/Save & View Score”; the list of facilities/score page with Add Feedback button will appear as shown in figure 12.
5. View scores and add feedback for sections; click Add Feedback button at the right side of each section; a modal window will popup; give the feedback and Submit.
6. Click on the “Submit” button to finalize and submit the assessment to server.
7. The questionnaire consists of the different areas as below:
 - A. Facility Information: pre entered information related to the Facility in which the assessment is being conducted.

Section 1: Facility Staff Details

:

Section 2: Facility Patient Access /Occupancy Data

Quarter 4			Quarter 3			Quarter 2			Quarter 1		
Head Count	No. Screened	=									
0	0	0%	0	0	0%	0	0	0%	0	0	0%
No. TB Presumptives	Tested	=									
0	0	0%	0	0	0%	0	0	0%	0	0	0%
Tested Positive	Started on Treatment	=	Tested Positive	Started on Treatment	=	Tested Positive	Started on Treatment	=	Tested Positive	Started on Treatment	=
0	0	0%	0	0	0%	0	0	0%	0	0	0%
Total DS-TB		0									
Total DR-TB		0									

Section 3: Staff Screening for TB

0/0

Add Feedback

Section 4: TB among Staff

- How many staff members have been diagnosed with TB in the past 12 months?
 - :

0/0

Add Feedback

Figure 22: Risk assessment form

- B. Color code of the score
- C. B. Achieved score
- D. C. Button to add feedback for respective sections.

Orientation to the Facility Assessment form:

1. Information Source/Lead Facility Representative: this is the source of information within the facility. This contains the information of interviewee.
2. Administrative Controls: This area contains 6 sections to pull different type of information about the risk related to the facility-staffs. They are:
 - A. Section 1: Facility staff details
 - B. Section 2: Facility Patient Access/Occupancy Data
 - C. Section 3: Staff Screening for TB
 - D. Section 4: TB Among Staff
 - E. Section 5: Management of Infection Control (IC) Program
 - F. Section 6: Turn Around Times (Average Number of Days it takes for producing test results or start treatment)

3. Environmental Controls: this area contains four sections to pull information about the risk related to the environment of the facility. They are:
 - A. Section 7: Sputum Collection
 - B. Section 8: Natural Ventilation
 - C. Section 9: Mechanical Ventilation (where applicable)
 - D. Section 10: Air Disinfecting Systems by upper Room UVGI (where applicable)
4. Personal Protection Equipment: this area contains 1 section to pull information related to the risk during respiration. The section is as below:
 - E. Section 11: Respiratory Protection Program (RPP)

Facility Assessment
<< Back

Facility Information A

Amandengane Clinic
 Street:
 Address:
 Town:
 District: Alfred Nzo District Municipality
 Province: Eastern Cape

Information Source / Lead facility representative B

Name ·

Designation ·

Contact No. ·

Email ·

Administrative Controls C

Section 1: Facility Staff Details:

Number of staff currently employed ·

+ Add

Section 2: Facility Patient Access /Occupancy Data

Figure 23: Risk assessment questionnaire form

Edit a Draft Assessment

Steps to Edit:

1. Click Assessments ⇒ Assess Facilities; the list of the facilities will appear as shown in figure 21;

- Identify the facility of interest by using search criteria; click the “Edit Draft” button; the unfinished assessment form will appear in edit mode. Edit it as necessary and Submit with feedback after viewing score.

View Dashboard

Steps to Edit:

- Click Assessments ⇒ Dashboard; the dashboard page will appear for the current assessment-cycle; the default data-scope will be national data (includes facilities of all province and districts) as shown in figure 14.
- To customize the dashboard as required, select your preferred province, district and assessment cycle.

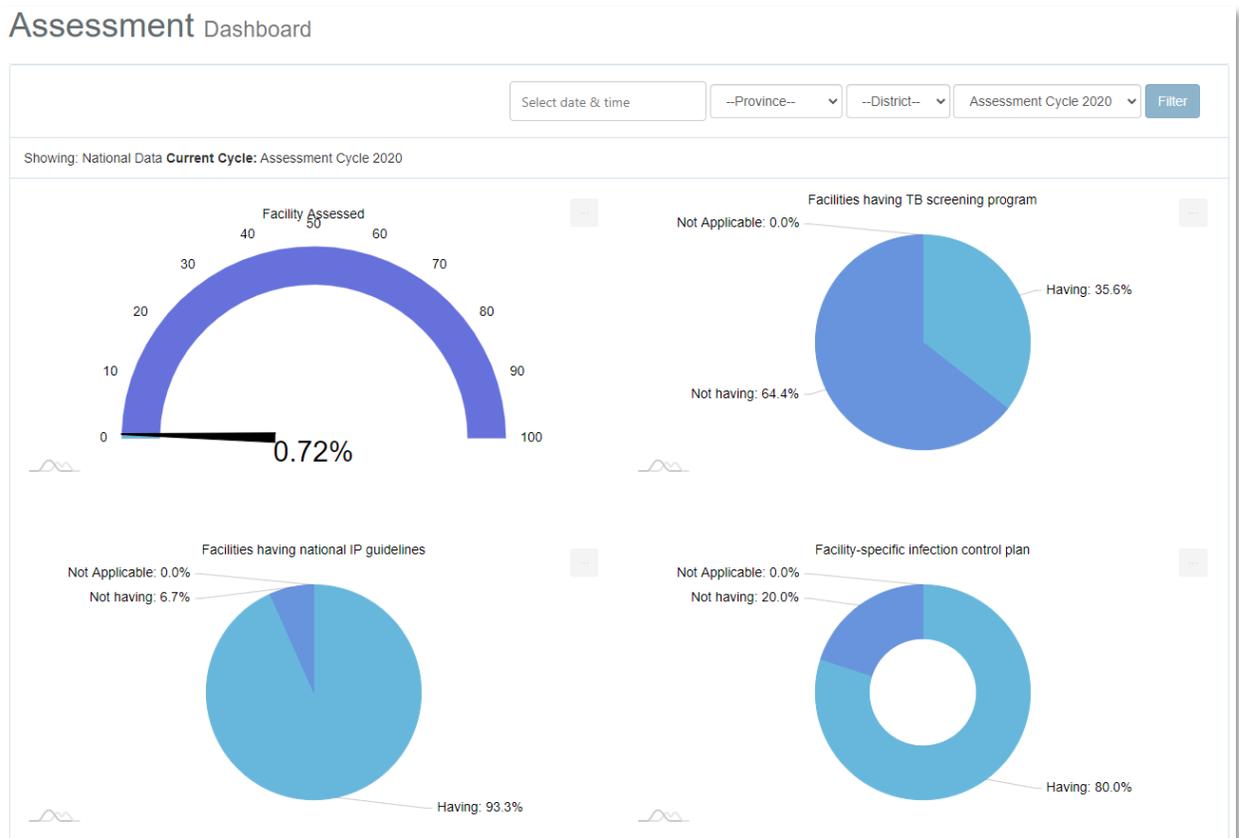


Figure 24: Assessment dashboard

Clinical Guidelines (for administrator)

Administrative users of IPConnect application can access the list of guidelines from the Guidelines menu item from the main menu located at the top menu bar, which consists of 8 submenu options:

- Guidelines
- Add New
- Guideline Category
- Add New Category
- Guideline Files
- Add new Files
- FAQ
- Add FAQ

The user must login to the system to be able to perform any assessment activities. The url <http://www.ipconnect-sa.org> will take the assessor to the public home page of ipconnect-sa portal. Where at the upper right corner, the Login link is available as shown in the figure 12.

From the list of Guidelines, the admin user can Create, Edit, Activate or Deactivate and Delete a Guidelines and sections of the Guidelines.

#	Name	Year	Description	Actions
1.	Management of Drug-Resistant Tuberculosis	2013	View each Chapter: Policy Guidelines for MDR-TB (Updated - January 2013)	Chapters Edit Deactivate Delete
2.	Management of Drug-Resistant Tuberculosis	2013	Download the PDF: Policy Guidelines for MDR-TB (Updated - January 2013)	Download Edit Deactivate Delete
3.	Infection Prevention and Control Guidelines for TB, MDR-TB and XDR-TB	2015	View each Chapter: National Infection Prevention Control Guideline for TB, MDR-TB and XDR-TB, Dec 2015	Chapters Edit Deactivate Delete
4.	Infection Prevention and Control Guidelines for TB, MDR-TB and XDR-TB	2015	Download the PDF: National Infection Prevention Control Guideline for TB, MDR-TB and XDR-TB, Dec 2015	Download Edit Deactivate Delete

Figure 25: Guideline admin menu

Guidelines are categorized by topic and categories can be Created, Edited, Deleted and Activated or Deactivated from the Guideline Category page shown on figure 2

Guideline Category List [Create New](#)

#	Name	Description	Operation
1.	Tuberculosis	Include TB-related Guidelines here.	Edit Deactivate Delete
2.	Hepatitis	Include Hepatitis-related guidelines here.	Edit Deactivate Delete
3.	General	Include general guidelines here.	Edit Deactivate Delete
4.	HIV	Include HIV-related guidelines here.	Edit Deactivate Delete
5.	Sexually Transmitted Infections	Include STI-related guidelines here.	Edit Deactivate Delete
6.	test-category-for-delete	test	Edit Deactivate Delete

Figure 26: Guideline category

Guidelines (for user)

A website visitor does not require to login to the IPConnect application to access the guidelines. The “Clinical Guideline” menu item, which is located in the top menu bar, as shown in figure below:

Figure 27: Guidelines menu

“Clinical Guideline” menu will lead to the page to read the documents on the website by clicking on the “Chapters” button at the right of each Guidelines and a downloadable version is available from the same page as shown on figure below:



The screenshot shows a table titled "Clinical Guideline List". It has four columns: "#", "Name", "Year", "Description", and "Actions". There are two rows of data. The first row has "# 1", "Name Management of Drug-Resistant Tuberculosis", "Year 2013", "Description View each Chapter: Policy Guidelines for MDR-TB (Updated - January 2013)", and "Actions Chapters". The second row has "# 2", "Name Management of Drug-Resistant Tuberculosis", "Year 2013", "Description Download the PDF: Policy Guidelines for MDR-TB (Updated - January 2013)", and "Actions Download".

#	Name	Year	Description	Actions
1.	Management of Drug-Resistant Tuberculosis	2013	View each Chapter: Policy Guidelines for MDR-TB (Updated - January 2013)	Chapters
2.	Management of Drug-Resistant Tuberculosis	2013	Download the PDF: Policy Guidelines for MDR-TB (Updated - January 2013)	Download

Figure 28: Guidelines

Chapters of the Guidelines document will appear as list as the figure below:



The screenshot shows a table titled "Guideline: Management of Drug-Resistant Tuberculosis". It has three columns: "#", "Name", and "Operation". There are two rows of data. The first row has "# 1", "Name Introduction", and "Operation Content". The second row has "# 2", "Name Legislative Framework and Public Health Ethics", and "Operation Content".

#	Name	Operation
1.	Introduction	Content
2.	Legislative Framework and Public Health Ethics	Content

Figure 29: List of contents

FAQ

FAQ section consists of frequently asked questions and answers related to infection prevention and control and guidelines for steps to follow for healthcare worker if they get exposed to any airborne or bloodborne pathogens.



Home / Faq

Health care workers risk of exposure to blood-borne pathogens

The risk of exposure to blood and blood-borne pathogens is slightly greater for health care personnel than for people who do not work around blood. An exposure to infected blood, tissue, or other potentially infectious body fluids can occur by: Percutaneous injury (e.g. a needle-stick or cut with a sharp object) OR Contact with mucous membrane or non-intact skin (e.g. skin that is chapped, abraded, or affected by dermatitis).

Figure 30: FAQ

CO₂ Level monitoring dashboard

Background of CO₂ monitoring device:

USAID TB South Africa Project supports the South African Department of Health to address challenges and improve TB infection prevention and control (IPC) in health facilities within all levels of the IPC hierarchy, including managerial, administrative, environmental and personal protective equipment controls. Within environmental controls, the project implemented a variety of interventions including the implementation of CO₂ sensors to monitor carbon dioxide levels as a proxy for TB transmission risk.

High concentration of CO₂ in the air increases the risk of TB transmission. The recommended CO₂ level should be less than 500 PPM to reduce the transmission of TB from person to person. Tuberculosis South Africa project introduced CO₂ level monitoring sensors in outpatient departments, emergency sections and wards of the health facilities to monitor CO₂. The reading from the CO₂ monitoring sensors transmit CO₂ level data to the IPConnect dashboard and triggers alerts when CO₂ level crosses 500 PPM or more and an alarm at 1100 ppm or more.

CO₂ level monitoring dashboard is accessible to the authorized users and can be accessed from the top menu bar as shown on the figure 18

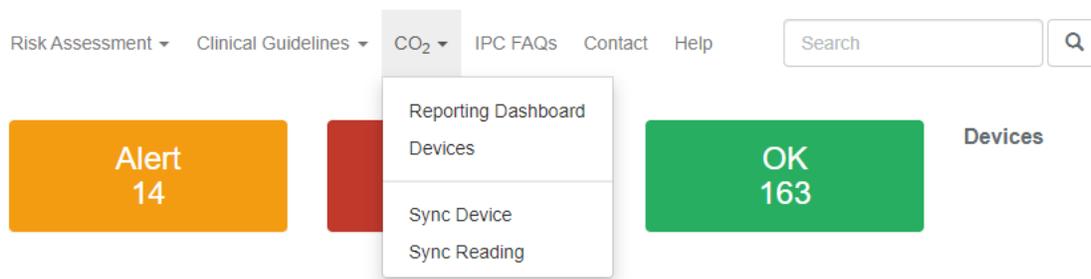


Figure 31: CO₂ level monitoring

The CO₂ menu item consists of 4 submenus as the following:

- Reporting Dashboard
- Devices
- Sync Device
- Sync Reading

Dashboard:

On the Dashboard page there are two tabs:

- Home
- Reports

Home:

Home tab will allow the users to filter the devices by Province, District and Facility. The charts represent the CO₂ level reading from the devices on the real time and number of Alert, Alarm and Number of devices reading within the limit.

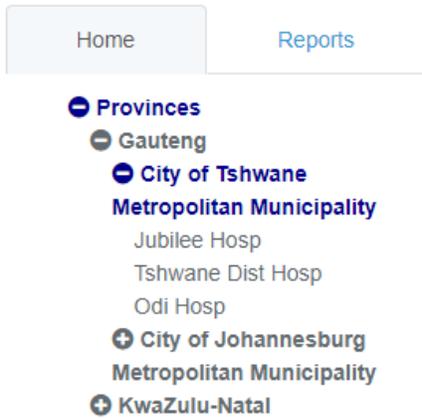


Figure 32: Hierarchical menu

Home tab displays the list of Administrative units in a hierarchical order in an expandable menu. This page allows the user to view CO2 level of different level. If province is selected from the menu, it will show reading by province, similarly it allows to view report by individual health facility level.



Figure 33: Realtime CO2 level report

List of CO2 monitoring devices are found on the right-hand side of the page as shown on figure below:



Figure 34: List of CO2 monitoring devices

Reports:

Under reports tab there are 4 options as the following:

- Dashboard
- CO₂ level comparison
- Facilities with higher level of CO₂
- CO₂ level spike times

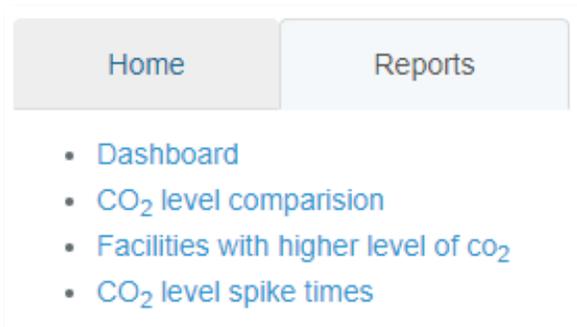


Figure 35: CO2 Dashboard

Summary: Summary pages shows an overview of the status of all the devices installed. The information includes “Maximum Average CO₂ level today” and “Facilities with maximum alert today”.

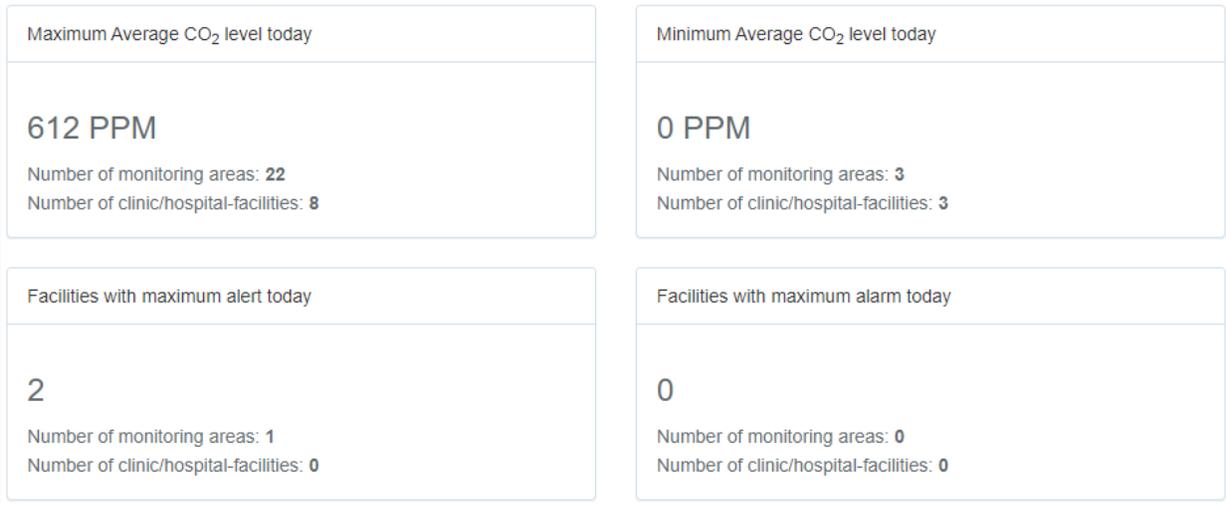


Figure 36: Summary report

CO₂ level comparison: This page shows the level of CO₂ recorded by each device of that facility. Each line on the line chart represents each individual device.



Figure 37: CO₂ Level comparison

Facilities with higher level of CO₂: To view facilities with higher level of CO₂ in a given period of time, this page allows the users to select date range and range of CO₂ level to pull list of facilities.

Filter by

CO₂ >=

CO₂ between

to

Filter

Facilities with higher Level of CO₂

Time	Province	District	Facility	Device	Co ₂
2020-09-11 20:34:15	Gauteng	CO ₂ Monitor - ODI-OPD (URC)	Odi Hosp	CO ₂ Monitor - ODI-OPD (URC)	638
2020-09-11 20:17:22	Gauteng	CO ₂ Monitor - ODI-OPD (URC)	Odi Hosp	CO ₂ Monitor - ODI-OPD (URC)	633
2020-09-11 19:44:05	Gauteng	CO ₂ Monitor - ODI-OPD (URC)	Odi Hosp	CO ₂ Monitor - ODI-OPD (URC)	610
2020-09-11 19:38:52	Gauteng	CO ₂ Monitor - ODI-CASUALTY (URC)	Odi Hosp	CO ₂ Monitor - ODI-CASUALTY (URC)	612
2020-09-11 19:27:04	Gauteng	URC - D4-Co - Jubilee Casualtyo2	Jubilee Hosp	URC - D4-Co - Jubilee Casualtyo2	623
2020-09-11 19:11:11	Gauteng	URC - D4-Co - Jubilee Casualtyo2	Jubilee Hosp	URC - D4-Co - Jubilee Casualtyo2	619
2020-09-11 18:33:38	Gauteng	URC D4-4C BMH-EC_o2	Bheki Mlangeni Dist Hosp	URC D4-4C BMH-EC_o2	621

Figure 38: Facilities with higher level of CO₂

CO₂ level spike times: To identify CO₂ level spike time, this page allows the users to filter CO₂ level spike times by date range and by Province or District.

Filter by

Province

District

Filter

Co₂ Level Spike Times

Time	Province	District	Facility	Device	Co ₂
2020-09-11 18:33:38	Gauteng	URC D4-4C BMH-EC_o2	Bheki Mlangeni Dist Hosp	URC D4-4C BMH-EC_o2	621
2020-09-11 10:18:57	Gauteng	URC D4-69 SouthRand_VirologyWait2	South Rand Hosp	URC D4-69 SouthRand_VirologyWait2	511
2020-09-11 10:15:01	Gauteng	URC- D4-4A-SouthRand_ODP1	South Rand Hosp	URC- D4-4A-SouthRand_ODP1	648
2020-09-10 09:25:00	Gauteng	URC D4-73 BMH-OPD_o2	Bheki Mlangeni Dist Hosp	URC D4-73 BMH-OPD_o2	766
2020-09-10 09:18:05	Gauteng	URC D4-9B BMH-EC_o1	Bheki Mlangeni Dist Hosp	URC D4-9B BMH-EC_o1	532
2020-09-10 07:51:01	Gauteng	URC D4-CE SouthRand_VirologyWait1	South Rand Hosp	URC D4-CE SouthRand_VirologyWait1	784

Figure 39: CO₂ level spike times

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Tips

Tips section displays display tips for healthcare workers for infection prevention. Tips are set of messages pushed to the IPConnect apps from server. However, web interface allows users to view daily tips as shown on the figure 40

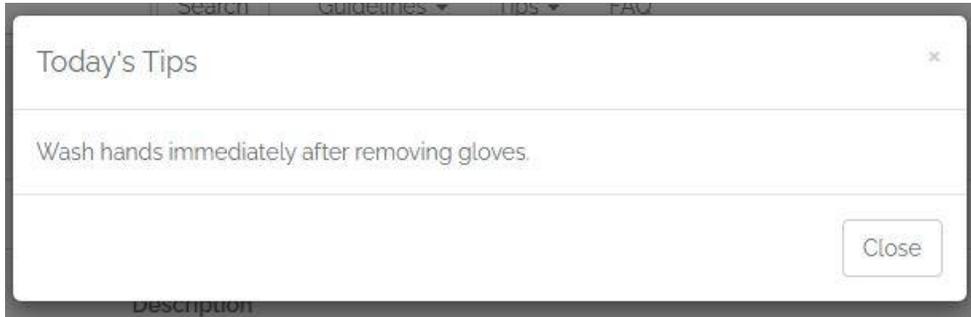


Figure 40: Daily tips