



BHI Site Assessment: Future PSA Plant

Date published: 14 June 2024

This document was developed by Build Health International for the Global Fund's Project BOXER.

Hospital Information						
Form Completed By	Name	Name		Title		
, ,						
Hospital / Facility Name						
Date of Visit						
	Name				Title	
		r (include country o	code)		Email	
Hospital Contact Information						
				0	Phone	
	Preferre	ed Contact Metho	d	0	WhatsApp	
				0	Email	
Capture GPS Pin		Completed				
Photo of Hospital/Facility Sign		Completed				
		Мах		М	in	Average
Temperature						
Humidity						
What is the approximate alt of the hospital?	itude					
Note any significant environmental hazards that impact the PSA plant (sand storms, near the ocean, floo etc.)						

	Bed Cou	ınt	
	Host Hospital/Facility:		
What is the number of beds that will be served by this	Other Health Facilities:		
oxygen plant? Total Beds:			
Please provide	bed counts for the different	types of beds, using the tabl	e below.
Ward	Bed Count	Outlets	•
Trai a	Boa Goaint	Functional*	Not Functional
Emergency			
Maternity			
Pre-op/PACU			
NICU			
PICU			
General ICU			
High Dependency Unit			
General Adult			
General Pediatric			
ТВ			
COVID-19			
Other			
Operating rooms			

*An outlet is functional if oxygen flows out of it at a purity of 90%. If you have an oxygen analyzer, you can test the purity to determine if the oxygen is flowing above the minimum purity (90%) for medical grade oxygen. This would be considered a functional outlet. However, if you do not have an oxygen analyzer, define the functionality of the outlet as whether or not oxygen flows from the outlet.

		Existing Oxygen Delivery				
			Wall-mounted outlets			
How does the hospital currently deliver oxygen to patients? Check all that apply.			Individual cylinders			
36			Oxygen concentrators			
Provide more details on the delivery method(s). For example, commercial source of cylinders or number of oxygen concentrators. Include all information shared by hospital staff.						
Comment on the functionality of the delivery method(s)						
	Wall-moun	ted Outlets	(Oxygen Piping Network)			
			Yes, all piping is functional			
Is the exi functiona	<mark>sting piping network</mark> al <mark>?</mark>		Yes, but to only some areas			
			No			
Give a brief description of any problems with the existing piping network.						
Take pho	tos of the wall outlets		Complete			
	a drawing/map of the piping on a separate piece of paper.		Completed			
	/all-mounted outlets supplied		No			
from cyli	nder manifolds?		Yes			
	Collect the following information and the pressure gauge if the ma			hotos of the manifold		
Manifold	Wards manifold supports	# of cylinders	Location of manifold	Outlet pressure (bar)		
1						
2						
3						
4						
5						
6						
7						

8						
Is there an existing PSA plant at the			No			
hospital o	or facility?		Yes			
<mark>IF YES: W</mark> (N3m/hr)?	/hat is the PSA plant capacity					
IF YES: W	/hen was it installed?					
			Cylind	er filling only		
IF YES: What is the oxygen delivery method of the PSA plant?		Direct	piping to oxygen	outlets	s only	
		Supplies oxygen directly and can also fill cylinders			can also fill cylinders	
			PSA p	lant is not function	nal	
on its inte	ant is not functional: Comment ended oxygen delivery method, roke down, and why it broke					
	N	lew Oxyge	n Deliv	ery Plan		
When the	new PSA plant is installed, how		Wa	II-mounted outlets	from	cylinder manifolds
are you p	lanning to deliver oxygen to eck all that apply.		Wa	II-mounted outlets	piped	I directly from PSA plant
beas. on	ook an that apply.		Ind	ividual cylinders		
What is/are the highest priority ward(s) for piping (e.g., ICU, NICU, labor rooms, etc.)?						
Does the	hospital have any plans for		No			
expansio	n?		Yes	3		
IF YES: How many beds will be added?						
IF YES: What kind of beds will they be? (e.g., NICU, maternity, ICU, etc)						
IF YES: When will construction start?						
IE VEC: A	re there plans?		No			
ii iLS. A	io tilele pialis:		Yes	3		
IF YES: W	/ho is funding the project?					
IE VEC: IV	/ill the new PSA plant support it?		No			
	alo now i on plant support it:		Yes	3		

Oxygen S	Supply to Pe	eripheral Facilities	
Does the facility plan to fill cylinders for		□ No	
other health facilities?		Yes	
List the peripheral health facilities and their	distances fr	rom the primary facility below:	
Other Health Facility	Bed Count	Time/Distance (km) from primary facility	
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
	Cylind	ers	
What is your current source of oxygen cylinders?			

How long does it take to get oxygen cylinders from the current source?		
Are there areas of the hospital or applications that will require oxygen cylinders?		
What standard size of cylinder do you use?		
What type of valves are on the cylinders?		
Take photos and videos of the cylinders from all angles. There is no such thing as too many photos and videos.		Completed
	Locati	ion
Have any potential sites been identified		No
where the new PSA plant could be located?		Yes
IF YES: Capture GPS pins of each location option		Completed
	Option 1:	
IF YES: Record the approximate dimensions of each potential site?	Option 2:	
	Option 3:	
Does the hospital have a site plan or		No
campus map that they can share? If so, request a copy.		Yes
Measure the perimeter of each potential space available for the PSA plant house and draw a diagram.		Completed
	Site Opt	ion 1
Is there anything on the site that needs to		No
be removed?		Yes

Comments		
Is the hospital aware of any underground		No
utilities on the site?		Yes
Comments		
Describe the site grading and identify any ma	aior slopes	or features:
20001120 the one grading and identity any inc	.jo: 0.0p00	
Take measurements of the slope of the site.		
Record here. Include a diagram on a separate piece of paper.		
Sopulate piece of paper.		
Take photos and videos of the site from all]	Completed
angles. There is no such thing as too many photos and videos.		Completed
Are there any sources of air pollution (dust, generator exhaust, kitchen exhaust,		No
incinerator, garage, etc.) near (less than		Yes
10m) planned PSA plant location? Is the site selected for the plant installation		
respecting minimum distance to flammable		No
sources (e.g., fuel tank, storage of flammable material, waste area, etc)?		Yes
If YES: What is the source of pollution?		
Are there signs of flooding near the planned PSA plant location?		
	Site Opt	ion 2
Is there anything on the site that needs to		No
be removed?		Yes
Comments		
Is the hospital aware of any underground utilities on the site?		No

		Yes
Comments		
Describe the site grading and identify any ma	ajor slopes	or features:
Take measurements of the slope of the site. Record here. Include a diagram on a separate piece of paper.		
Take photos and videos of the site from all angles. There is no such thing as too many photos and videos.		Completed
Are there any sources of air pollution (dust, generator exhaust, kitchen exhaust, incinerator, garage, etc.) near (less than 10m) planned PSA plant location?		No Yes
Is the site selected for the plant installation respecting minimum distance to flammable		No
sources (e.g., fuel tank, storage of flammable material, waste area, etc)?		Yes
If YES: What is the source of pollution?		
Are there signs of flooding near the planned PSA plant location?		
	Site Opt	ion 3
Is there anything on the site that needs to		No
be removed?		Yes
Comments		
Is the hospital aware of any underground		No
utilities on the site?		Yes
Comments		



Describe the site grading and identify any major slopes or features:		
Take measurements of the slope of the site. Record here. Include a diagram on a separate piece of paper.		
Take photos and videos of the site from all angles. There is no such thing as too many photos and videos.		Completed
Are there any sources of air pollution (dust, generator exhaust, kitchen exhaust,		No
incinerator, garage, etc.) near (less than 10m) planned PSA plant location?		Yes
Is the site selected for the plant installation respecting minimum distance to flammable		No
sources (e.g., fuel tank, storage of flammable material, waste area, etc)?		Yes
If YES: What is the source of pollution?		
Are there signs of flooding near the planned PSA plant location?		
List the pros and cons of each site option be	low:	
	Plant Hous	se Type
		Container
MGII the DOA mlant he knowed to a cost t		New building (to be constructed)
Will the PSA plant be housed in a container or inside a PSA plant building?		Existing standalone plant house building
		Plant room in an existing building
		Undecided

Is there an existing PSA plant house?		No
is there an existing FSA plant house?		Yes
IF YES: Is there a non-functional plant that		No
needs to be removed in order to install the new plant?		Yes
		Doorway (HxW)
IF YES: What are the key dimensions?		Ceiling Height:
		Room Dimensions (LxW):
	Acce	ess
Is there adequate truck access to deliver the PSA plant to the planned location? (min		No
14 ft (4.3m) of height, min 10 ft (3m) of width, any seasons when roads are impassable?)		Yes
Comments:		
Is there adequate crane access for containerized plants being delivered to the site? (Note power lines, trees, etc)		No
		Yes
How high above grade does the PR want the slab to be? Consider flooding risk.		
Is there adequate access to the plant for		No
trucks collecting and returning cylinders?		Yes
Is there space to build a ramp to aid with		No
the transportation of cylinders?		Yes
	Progran	mming
Will the facility require cylinder storage?		No
Time the factority require eyimaer eterage.		Yes
IF YES: Will cylinder storage need to be		No
designed into their plant house structure?		Yes
IF YES: Will the facility be utilizing a fork		No
lift for cylinder transport?		Yes
IF VEC. Door the facility require a remain		No



and platform (e.g., loading dock) for cylinder delivery?		Yes
If YES: How high does the platform/loading dock need to be? Note: This will depend on the height of the truck beds being used to transport the cylinders.		
Is there an existing space available for		No
cylinder storage?		Yes
Comments		
IF YES: Please provide details on the location, distance from future PSA plant site, suitability, and if it is big enough.		
Are there any other programming needs?		Toilet
		Office
		Storage (spare parts, tools, etc)
		Solar / Electrical Room
		Other
Comments		
	Human R	esources
Are there any existing staff at the hospital/facility that have the skill and		No
capacity to operate the PSA plant?		Yes
IF YES: List their names, positions, and contact information. Make a note of their level of experience.		

IF NO: Describe the potential staffing needs
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Additional Health Facilities			
What is the number of beds that will be served by this oxygen plant?	Host Hospital/Facility:		
	Total Beds:		
Please provide bed counts for the different types of beds, using the table below.			
Ward	Bed Count	Outlets	
Emergency			
Maternity			
Pre-op / PACU			
NICU			
PICU			
General ICU			
High Dependency Unit			
General Adult			
General Pediatric			
ТВ			
COVID-19			
Other:			

Additional Health Facilities			
What is the number of beds that will be served by this oxygen plant?	Host Hospital / Facility:		
	Total Beds:		
Please provide bed counts for the different types of beds, using the table below.			
Ward	Bed Count	Outlets	
Emergency			
Maternity			
Pre-op / PACU			
NICU			
PICU			
General ICU			
High Dependency Unit			
General Adult			
General Pediatric			
ТВ			
COVID-19			
Other:			
Number of operating rooms:			