



BHI Site Assessment: Future PSA Plant

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Hospital Information							
Form Completed By	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	е					
Note any significant environmental hazards that could impact the PSA plant (sand storms, near the ocean, flooding etc.)							

Bed Count				
	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	3	
•••ai u	Deu Count	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		
	s the hospital currently deliver patients? Check all that apply.		Individual cylinders		
			Oxygen concentrators		
method(s source of concentra	nore details on the delivery s). For example, commercial f cylinders or number of oxygen ators. Include all information y hospital staff.				
	t on the functionality of the method(s)				
	Wall-mount	ed Outlets	(Oxygen Piping Network)		
			Yes, all piping is functional		
Is the exi	sting piping network functional?		Yes, but to only some areas		
			No		
Give a brief description of any problems with the existing piping network.					
Take photos of the wall outlets			Complete		
Provide a drawing/map of the piping network on a separate piece of paper.			Completed		
	vall-mounted outlets supplied		No		
from cylii	nder manifolds?		Yes		
	Collect the following information t 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 hospital or facility?			No		
			Ye	s	
IF YES: V (N3m/hr)ʻ	What is the PSA plant capacity?				
IF YES: V	Vhen was it installed?				
			Су	linder filling only	
15 V 50 MI 4 1 4 1		Dii	Direct piping to oxygen outlets only		
	Vhat is the oxygen delivery of the PSA plant?		Su	Supplies oxygen directly and can also fill cylinders	
			PS	A plant is not functional	
on its inte	lant is not functional: Comment ended oxygen delivery method, roke down, and why it broke				
	N	lew Oxyge	n D	elivery Plan	
18/l o o se 4lo o	now DOA wheat is installed be an			Wall-mounted outlets from	cylinder manifolds
are you p	e new PSA plant is installed, how planning to deliver oxygen to			Wall-mounted outlets piped	I directly from PSA plant
beus! Ci	neck all that apply.			Individual cylinders	
	re the highest priority ward(s) for .g., ICU, NICU, labor rooms, etc.)?				
Does the	hospital have any plans for			No	
expansio	n?			Yes	
IF YES: H	low many beds will be added?				
	What kind of beds will they be? CU, maternity, ICU, etc)				
IF YES: V	When will construction start?				
IE VEQ. A	ura thara niana?			No	
1L3. P	are there plans?			Yes	
IF YES: V	Vho is funding the project?				
IE VES: V	Will the new PSA plant connect it?			No	
IF YES: Will the new PSA plant support it?				Yes	

Oxygen Supply to Peripheral Facilities			
Does the facility plan to fill cylinders for		No	
other health facilities?		Yes	
List the peripheral health facilities and their	distances fi	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	lers	
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 where the new PSA plant could be located?		No		
		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 Option 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	ajor slopes	or features:		
Take measurements of the slope of the site.				
Record here. Include a diagram on a				
separate piece of paper.				
Taka mbataa and sidaaa af tha aita fuun all		T		
Take photos and videos of the site from all angles. There is no such thing as too many		Completed		
photos and videos.				
Are there any sources of air pollution (dust, generator exhaust, kitchen exhaust,		No		
incinerator, garage, etc.) near (less than	П	Yes		
10m) planned PSA plant location?		165		
Is the site selected for the plant installation respecting minimum distance to flammable		No		
sources (e.g., fuel tank, storage of		Yes		
flammable material, waste area, etc)?				
If YES: What is the source of pollution?				
Are there signs of flooding near the planned PSA plant location?				
r sa plant location:	Site Opt	tion 2		
Is there anything on the site that needs to		No		
be removed?		Yes		
Comments		,		
		No		
Is the hospital aware of any underground	Ш	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, incinerator, garage, etc.) near (less than		No		
10m) planned PSA plant location?		Yes		
Is the site selected for the plant installation respecting minimum distance to flammable sources (e.g., fuel tank, storage of		No		
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	
		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	
		Yes	
IF YES: Is there a non-functional plant that needs to be removed in order to install the		No	
new plant?		Yes	
		Doorway (HxW)	
IF YES: What are the key dimensions?		Ceiling Height:	
		Room Dimensions (LxW):	

	Acc	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		No
site? (Note power lines, trees, etc)		Yes
Comments:	1	
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
	Progra	mming
Will the facility require cylinder storage?		No
viii the lacinty require cylinder storage:		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 YES: Does the facility require a ramp and platform (e.g., loading dock) for		No
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.	t		
		_ I	Foilet
			Office
Are there any other programming needs?	s?		Storage (spare parts, tools, etc)
			Solar / Electrical Room
			Other
Comments			
	<u>'</u>	Human Res	sources
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			
	A -1 -1.	141 a w = 1 11 - 1	Idh Facilidian
What is the number of beds that			Ith Facilities ital/Facility:
will be served by this oxygen plant?	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:	

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:		