OCP Ready COLO Facility Assessment	*PDG SG 1*		
Self Assessment Status:	COMPLETE-MEETS REQUIREMENTS		
Data Center Location Name	PDG SG 1		
Data Center Location Address	7000 Ang Mo Kio Avenue 5, 569877		
Site Description: White Space Area	~6,500 sqm		
Site Description: Critical IT Power	13MW		
Site Description: Network Provider Availability	Singtel, Starhub, Superloop, Sptel, PCCW		
Site Description: Facility Features	office block, loading bay, MMRs and standalone security office and monitoring		
Site Description: Other Services	BCP space, lounge, meeting spaces and offices		
Date Original Assessment is Completed	25th May 2021		
Re-Assessment Date:			
REQUIREMENTS - Attribute (Must have an Optimum or Acceptable result)	**Parameter**	**Result**	**Notes**
ACCESS			
Building Access	1. Loading dock with lift or leveler	Optimum	
Delivery pathway, Loading dock to Goods in	1. ≥2.7m (108in) H x ≥2.4m (96in) W x ≥2.4m (96in) D unobstructed access and threshold free	Optimum	
Delivery pathway, Goods in to White space	1. ≥2.4m (96in) H x ≥1.8m (72in) W unobstructed access and threshold free	Optimum	
Corridor floor rolling load	1. ≥680kg (1500lb) (6.67kN)	Optimum	
Unboxing/pre-staging/storage area floor uniform load	1. ≥1221kg/m2 (250lb/ft2) (11.97kN/m2)	Optimum	
Unboxing/pre-staging/storage area floor concentrated load	1. ≥680kg (1500lb) (6.67kN)	Optimum	
RAMPS			
Gradient	1. ≤1:12	Optimum	
Width	1. ≥1.5m (60in)	Optimum	
Landing area	1. ≥1.5m x 1.5m (60in x 60in)	Optimum	
Railings	1. Not Applicable - No Railings Required	Optimum	
LIFTS / ELEVATORS			
Weight loading	1. Not Applicable - No Lift/Elevator Required	Optimum	
Door height	1. Not Applicable - No Lift/Elevator Required	Optimum	
Width	1. Not Applicable - No Lift/Elevator Required	Optimum	
Depth	1. Not Applicable - No Lift/Elevator Required	Optimum	
WHITE SPACE			
Floor rolling load	1. ≥680kg (1500lb) (6.67kN)	Optimum	
Floor uniform load	1. ≥1221kg/m2 (250lb/ft2) (11.97kN/m2)	Optimum	
Floor concentrated load	1. ≥680kg (1500lb) (6.67kN)	Optimum	
Finished floor to ceiling height	1. ≥4.5m (180in)	Optimum	
Access floor clearance	1. ≥900mm (36in) (if used for cooling)	Optimum	
ELECTRICAL			
Number of independent circuits to the rack	1. 2N (A+B)	Optimum	
Maximum circuit capacity	1. 3ϕ 32A/230V	Optimum	
Circuit voltage	1. 400/230 VAC nominal	Optimum	
Circuit frequency	1. 47-63 Hz	Optimum	
Power receptacle / WIP Type	2. IEC-60309 516R6W	Acceptable	
Circuit receptacle location	2. Underfloor	Acceptable	
Upstream UPS options	1. UPS and non UPS feeds available	Optimum	
Rack-based batteries permitted	1. Allowed	Optimum	
Generator load acceptance time	1. <60 seconds	Optimum	
COOLING			
Rack airflow direction	1. Front to Back	Optimum	
Air containment methods	2. Hot/Cold aisle containment for all cabinets in white space	Acceptable	
Maximum rack density	1. ≥12kw	Optimum	up to 20kW with containment
Minimum cold aisle width	1. ≥1500mm (60in)	Optimum	
Minimum free width cold aisle (Inside cage)	1. ≥1200mm (48in)	Optimum	

Minimum hot aisle width	1. ≥1200mm (48in)	Optimum	
Inlet air conditions	2. ASHARE Recommended	Acceptable	
Air quality	1. EN 779 G4 and F7 filtering & Gas particulate monitoring to the ANSI/ISA 74.04-1985 G severity levels	Optimum	
Temperature rise	1. ≥12 Deg C DeltaT	Optimum	
Cabinet blanking of open space	1. Mandatory	Optimum	
CABLING			
Cabling infrastructure pathways	1. Top and Front of rack fed	Optimum	
Overhead Network Infrastructure containment levels	1. 3 Levels (Intra-Pod cabling; Inter-Pod cabling; OOB cabling)	Optimum	
Fibre Type (if installed)	2. Installed Per Customer Requirements	Acceptable	
Fibre connection presentation (if installed)	2. Installed Per Customer Requirements	Acceptable	
CONSIDERATIONS (For information only)	**Parameter**	**Result**	**Notes**
SERVICE			
Replacement PSU Modules	1. In stock onsite	Optimum	PDG can replace modules via remote hands if they are stored onsite
Replacement BBU Modules	1. In stock onsite	Optimum	PDG can replace modules via remote hands if they are stored onsite
Option to monitor PSUs and BBUs	1. Yes	Optimum	
Remote hands for PSU and BBU replacement or expansion	1. Yes	Optimum	
Remote hands for OCP IT hardware replacement or expansion	1. Yes	Optimum	
EFFICIENCY			
Site Operations Standards	2. Other (Notes required)	Acceptable	TIMS level 4
Site PUE Monitoring	1. Continuously monitored	Optimum	
Site Design PUE	2. <1.5	Acceptable	
Site Annualized PUE Current Achievement	2. <1.5	Acceptable	
Site WUE Monitoring	1. Continuously monitored	Optimum	
Site CUE Monitoring	1. Continuously monitored	Optimum	
OPENNESS			
PUE Published	1. Real-time available online	Optimum	
Facility Design Drawings & Files	2. Available to view upon request	Acceptable	