	OCP Ready v2 for Hyperscale Data Center Site Assessment	PDG MU1 - DC1		
	Self Assessment Status:	COMPLETE-MEETS REQUIREMENTS		
	Data Center Location Name	PDG MU1		
	Data Center Location Address	BUILDING 10, GIGAPLEX, AIROLI WEST, NAVI MUMBAI		
	Site Development Category:	1. Multi-tenant Capacity Available	12/08/2022	
	Site Description: IT Technical Space (White Space) Area	12500 sq ft		
	Site Description: Critical IT Power	25MW		
	Site Description: Network Provider Availability	6 Points of Entry for Fiber into the campus der's trenches available till site location of all leading network providers, dedicated trenches inside premises		
	Site Description: Facility Features	Uptime Tier III, 2nos Passenger lifts 2nos Freight lifts 3nos staircases Each floor designed upto 5MW IT Capacity		
	Site Description: Other Services	4point entry to Datahall Dedicated access road and parkings Office and conference rooms Dedicated CCTV Monitoring room Cafeteria		
	Date Original Assessment is Completed	01/31/2025		
	Re-Assessment Date:			

Ref:	REQUIREMENTS - Attribute (Must have an Optimum or Acceptable result)	Parameter	Result	Notes/ Actual Parameters
1	CAMPUS SITE ACCESS & LOGISTICS			
1.0	SITE ACCESS			
1.0-A	Vehicular Access inc. truck circulation	1. Roadway access to loading dock to allow for a trailer 12.2m (40') Wheelbase	Optimum	
1.0-B	Building Access	1. Covered loading dock with leveler	Optimum	
1.0-C	Delivery pathway, Loading dock to storage room	1. ≥ 2.75m (108in) H x ≥ 1.6m (63in) W unobstructed access and threshold free	Optimum	
1.0-D	Delivery pathway, Goods in to IT Technical Space	1. ≥ 2.75m (108in) H x ≥ 1.6m (63in) W unobstructed access and threshold free	Optimum	
1.0-E	Corridor floor rolling load	2. ≥680 kg (1500 lb) (6.67 kN) access floor (no spreader plates required)	Acceptable	
1.0-F	Unboxing/pre-staging/storage area floor uniform load	2. ≥1221 kg/m2 (250 lb/ft2) (11.97 kN/m2) access floor (no spreader plates required)	Acceptable	
1.0-G	Unboxing/pre-staging/storage area floor concentrated load	2. ≥680 kg (1500 lb/ft2) (6.67 kN) access floor	Acceptable	
1.1	ACCESS CONTROLS & MONITORING			
1.1-A	Site perimeter fence	2. ≥2.43m (96in) anti-climb fence	Acceptable	
1.1-B	Site security lighting	2. Site lighting	Acceptable	
1.1-C	Main Security Checkpoint (or check in location)	1. Staffed 24/7	Optimum	
1.1-D	Levels of security to gain access to IT Technical Space	1. >3 (site perimeter, building perimeter, secure corridor and IT Technical Space)	Optimum	
1.1-E	Video surveillance data record archive	1. >30 days	Optimum	
1.1-F	Visitor access requirements	1. Pre-approved with valid government issued ID and escorted	Optimum	
1.1-G	Entrance and exit door monitoring	1. All entrance and exit doors are electronically monitored and recorded	Optimum	
1.2	RAMPS			
1.2-A	Gradient	1. Not Applicable - No Ramps Required	Optimum	
1.2-B	Length	1. Not Applicable - No Ramps Required	Optimum	
1.2-C	Width	1. Not Applicable - No Ramps Required	Optimum	
1.2-D	Landing area	1. Not Applicable - No Ramps Required	Optimum	
1.2-E	Railings	1. Not Applicable - No Railings Required	Optimum	
1.3	FREIGHT LIFTS / ELEVATORS			
1.3-A	Weight loading	1. ≥3000kg (6600lbs)	Optimum	
1.3-B	Door height	1. ≥2.75m (108in) Lift /Elevator door opening height (internal cabin)	Optimum	
1.3-C	Width	1. ≥1.8m (71in) Unobstructed door opening width	Optimum	
1.3-D	Depth	1. ≥3.4m (134in) Unobstructed cabin depth	Optimum	
2	IT TECHNICAL SPACE (WHITE SPACE)			
2.0	STRUCTURAL			
2.0-A	Floor rolling load	2. ≥680 kg (1500 lb) (6.67 kN) access floor	Acceptable	
2.0-B	Floor uniform load	2. ≥1221kg/m2 (250lb/ft2) (11.97kN/m2) access floor	Acceptable	
2.0-C	Floor concentrated load	2. ≥680kg (1500lb) (6.67kN) access floor	Acceptable	

2.0-D	Finished floor to ceiling height	1. ≥4.5m (178in) clear space (no obstructions)	Optimum	
2.0-E	Access floor	1. CFD study available to view on request (if used for cooling)	Optimum	
2.1	**ELECTRICAL**			
2.1-A	Class Rating	1. 3 (e.g. Bicsi F3 or UTI Tier 3 Notes Required)	Optimum	Uptime Tier III
2.1-B	Row level diverse power feeds	1. 2N (A+B)	Optimum	
2.1-C	Nominal circuit capacity	1. 1ϕ and 3ϕ circuits available based on customer requirements (e.g. 1ϕ 230-240V, 3ϕ 400V-415V Notes Required)	Optimum	415VAC 40Amp, 3ph feeders to rack
2.1-D	Circuit frequency	1. 47-63 Hz	Optimum	
2.1-E	Power receptacle / WIP Type	1. All power receptacle types supported	Optimum	
2.1-F	Circuit receptacle location	2. Underfloor WIP	Acceptable	
2.1-G	Upstream UPS options	1. N+N UPS feed	Optimum	
2.1-H	Rack-based batteries permitted	1. Allowed	Optimum	
2.1-I	Generator load acceptance time	2. <35 seconds	Acceptable	
2.2	**COOLING**			
2.2-A	Class Rating	1. 3 (e.g. Bicsi F3 or UTI Tier 3 Notes Required)	Optimum	Uptime Tier III
2.2-B	Supplemental Advanced Cooling	1. Not Applicable	Optimum	
2.2-C	Rack airflow direction	1. Front to Back	Optimum	
2.2-D	Air containment methods	1. Hot aisle containment	Optimum	
2.2-E	Maximum rack density	1. ≥12kW	Optimum	
2.2-F	Minimum cold aisle width	1. ≥1400mm (56in)	Optimum	
2.2-G	Minimum free width cold aisle (Inside cage)	1.≥1400mm (56in)	Optimum	
2.2-H	Minimum hot aisle width	1. ≥1200mm (48in)	Optimum	
2.2-I	Inlet air conditions	1. ASHRAE Recommended	Optimum	
2.2-J	Air quality	1. MERV 8 filters on outside air	Optimum	
2.2-K	Temperature rise	1. ≥12 Deg C DeltaT	Optimum	
2.2-L	Cabinet blanking of open space	1. Mandatory	Optimum	
3	**TELECOMMUNICATIONS**			
3.1	**ACCESS PROVIDERS AND OUTSIDE PLANT (OSP) Fiber**			
3.1-A	OSP fiber to data center campus	1. 3 diverse OSP entrances to the data center campus	Optimum	
3.1-B	Carriers and backbone providers	1. Carrier neutral with expansion capability (Notes Required)	Optimum	
3.2	**MEET-ME ROOMS (MMRS)**			
3.2-A	Number and Location	1. N+N Isolated MMRs with dedicated OSP fiber entrance from service providers	Optimum	
3.3	**MMR CABLING**			
3.3-A	MMR to IT Technical Space Pathways	1. 2 dedicated diverse pathways from 2 MMRs	Optimum	
3.3-B	MMR to IT Technical Space Conduit Pathway sizing	1. ≥100mm (4in) conduit pathways	Optimum	
3.4	**MMR ELECTRICAL**			
3.4-A	Class Rating	1. 3 (e.g. Bicsi F3 or UTI Tier 3 Notes Required)	Optimum	Uptime Tier III
3.4-B	Row level diverse power feeds	1. 2N (A+B)	Optimum	
3.4-C	Nominal circuit capacity	1. 1ϕ and 3ϕ circuits available based on customer requirements (e.g. 1ϕ 230-240V, 3ϕ 400V-415V Notes Required)	Optimum	230VAC 32Amp, 1ph, 3A+3B
3.4-D	Circuit frequency	1. 47-63 Hz	Optimum	
3.4-E	Upstream UPS options	1. UPS systems derived from an isolated house lineup	Optimum	
3.4-F	UPS Redundancy	1. N+1	Optimum	
3.4-G	Generator load acceptance time	2. <35 seconds	Acceptable	
3.5	**MMR COOLING**			
3.5-A	MMR cooling redundancy per room	1. N+N	Optimum	
3.5-B	MMR cooling system type	2. Chilled water	Acceptable	
3.5-C	MMR cooling isolation	2. Customer dependent (Notes Required)	Acceptable	Used common CHW system. Independent room with dedicated FWU units installed for MMR cooling
3.6	**MMR ACCESS CONTROLS**			
3.6-A	Customer access to MMR(s)	1. Controlled by the colocation data center and escorted	Optimum	

3.6-B	Service Provider access to MMR(s)	1. Controlled by the colocation data center and escorted	Optimum	
3.6-C	Biometric readers, badge readers, and video surveillance installed for the MMR(s)?	1. Yes	Optimum	
4	**SERVICE**			
4.1	**OPERATIONS AND SPARE PARTS**			
4.1-A	Critical spares program	1. On hand spares available off campus	Optimum	
4.1-B	Critical Response SLA	1. Yes	Optimum	
4.1-C	Remote hands program	1. Yes	Optimum	
4.1-D	Office Space	1. Dedicated space available for fitout	Optimum	
5	**EFFICIENCY**			
5.0-A	Site Operations Standards	1. Other (Notes required)	Optimum	PDG developed operations standards in line with BCP standards requirements
5.0-B	Operational Sourcing Standard	1. Hybrid	Optimum	
5.0-C	Work Note Communication and Coordination	1. Yes (e.g. Dedicated portal, Teams, Sharepoint)	Optimum	
5.0-D	Site PUE Monitoring	1. Continuously monitored	Optimum	
5.0-E	Site Design PUE at Full Load	2. >1.3 @ 80% Max Utilization (e.g. due to location in Ashrae Climate zone OA, notes required for PUE calculation)	Acceptable	PDG MU1 site is located at Mumbai, N=20 years ambient temperature is 41.7°C and the cooling design with air cooled. Thus, the annualized design PUE is <1.40
5.0-F	Site Annualized PUE Current Achievement	2. >1.3 @ 80% Max Utilization (e.g. due to location in Ashrae Climate Zone OA, notes required for PUE calculation)	Acceptable	Currently the oerational load is negligible in the data center to compare with design PUE
5.0-G	Site WUE Monitoring	1. Not applicable (e.g. zero water requirement)	Optimum	
5.0-H	Site CUE Monitoring	1. Continuously monitored	Optimum	
6	**OPENNESS**			
6.0-A	PUE Published	1. Real-time available online	Optimum	
6.0-B	Facility Design Drawings & Files	1. Available to view upon request	Optimum	
6.0-C	BMS / PMS Customer Access	1. External access provided through a MQTT Broker or other air gapped connection for telemetry purposes. (e.g. power monitoring)	Optimum	
7	**CERTIFICATIONS**			
7.0-A	ISO/IEC 27001	1. Certification achieved	Optimum	Available for DC1 Bldg
7.0-B	SOC 1 Type II	1. Certification achieved	Optimum	Available for DC1 Bldg
7.0-C	SOC 2 Type II	1. Certification achieved	Optimum	
7.0-D	PCI-DSS	1. Certification achieved	Optimum	
7.0-E	Sustainability Assessment	2. Other (Notes Required)	Acceptable	IGBC Platinimum received
7.0-F	Data Center Certification	1. UTI Certification achieved	Optimum	Achieved UTI Tier III for DC1 Bldg
	Site Assessment Version - v1.0 rev1.12			