Appendix 1 - Port Count (Sheet A)

No of Ports (Copper/Fibre) Required for each Rack/Room

S/N	Description	No. of Racks	Network Purpose		Storage Purpose	Row no (Number of RACK)									Remarks
			No. of copper	No of Fibre	No of Fibre	1 (18)	2 (17)	3 (17)	4 (18)	5 (18)	6 (12)	7 (13)	8 (12)	Copper Port count	
1	Server room 1	60	2x24	2x12	2x8	16	15	15	14	0	0	0	0	Migration	All copper cable should be CAT-6a & Fibre cable should be OM3 for Leaf switch to server rack in server room and OM4 for Leaf switch to Spine switch in Network room
2		10	2x24	2x12	2x8	0	0	0	0	0	0	0	10	DMZ (last row)	
3		37	2x12	2x12	2x12	0	0	0	0	16	10	11	0	New	
	Total	**107**	**(18 rack will be used for passive cabling)**			**768**	**720**	**720**	**672**	**384**	**240**	**264**	**480**	**4248**	
			Fibre for network			**384**	**360**	**360**	**336**	**384**	**240**	**264**	**240**	**2568**	
			Fibre for storage *			**256**	**240**	**240**	**224**	**384**	**240**	**264**	**160**	**2008**	
4	**Network room**	21	2x12	2x6	NA	8	5	8	NA	NA	NA	NA	NA	504	
5	**Telecom room**	2	120	24	NA	**Not Applicable**								240	For Extending Network link from Telecom room to Network room

*** 2 Racks should be considered beside network aggregation rack on 4th row for termination of SAN cable. SAN switches will be placed on the same SAN aggregation rack hence atleast 20U space be left on downside of the each SAN aggreation rack for the same**

Appendix 1 - Port Count (Sheet B)

	Active + Passive		
Sever Density (Port)	**Ethernet Copper (1G/10G)**	**Eth Fiber (10G/25G)**	**Storage (8G/16G)**
Migration	48	24	16
DMZ	48	24	16
New	24	24	24

Sever Density (RACK)	**Row 1**	**Row 2**	**Row 3**	**Row 4**	**Row 5**	**Row 6**	**Row 7**	**Row 8**
Migration	16	15	15	14	0	0	0	0
DMZ	0	0	0	0	0	0	0	10
New	0	0	0	0	16	10	11	0

Passive Cabling

		No. of Racks	**Ethernet Copper (1G/10G)**	**Eth Fiber (10G/25G)**	**Storage (8G/16G)**	**No. of Network aggreation racks**	**No of SAN aggreation rack**	**Remarks**
Server Room 1	Row 1	16	768	384	256	2	0	Each row will have 2 racks for Network aggregation except 4th row which will have 4 racks for network aggreation (i.e. 2 for LAN and 2 for SAN)
	Row 2	15	720	360	240	2	0	
	Row 3	15	720	360	240	2	0	
	Row 4	14	672	336	224	2	2	
	Row 5	16	384	384	384	2	0	
	Row 6	10	240	240	240	2	0	
	Row 7	11	264	264	264	2	0	
	Row 8	10	480	240	160	2	0	

NOTE	
Lan Fibre switch	40 port should be 10G and 8 port should be of 25G should be factored for every 48 port 10/25G Lan fibre switch
LAN Oversubscription	Every 48 10G/25G there should be 2x40G uplinks
Uplinks	10% additional uplink ports should be factored in addition to the Uplinks ports required as per the oversubscription ratio for LAN