# Request for Proposal
# for Selection of Vendor to Design, Build Transfer of Network Infrastructure at New Office, Mumbai

**RFP No. BCC:IT:PROC:113:54 dated 02.11.2021**

**Appendix 1 - Port Count - (Sheet A)**

| Total No of Ports (Copper/Fibre) Required for each Rack/Room | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **S/N** | **Description** | **No. of racks** | **Network Purpose** | | **Storage Purpose** | **Row no** | | | | | | | | | **Remarks** | **Fiber Count** |
| | | | **No. of copper** | **No of Fiber** | **No of Fiber** | **1 (13)** | **2 (13)** | **3 (10)** | **4 (10)** | **5 (13)** | **6 (13)** | **7 (10)** | **8 (13)** | **Total Ports** | | |
| **1** | **Server Room** | 30 | 2x48 | 0 | 2x12 | 6 | 6 | 3 | 3 | 6 | 6 | 0 | 0 | | 1) All the Copper ports will be on CAT 6A and will be within the rack with a ToR switch with 2x48 port switches in each rack<br>2) This will be uplinked to the spine switches with a 1:6 oversubscription with the max port speed considered per leaf switch | |
| | | 41 | 12 | 48 | 2x12 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 0 | | This will be fiber ports with OM4 MPO trunk | |
| | | | | | | | | | | | | | | | | |
| | **Total Server Racks** | **71** | **Total ToR Copper Ports** | | | **288** | **288** | **144** | **144** | **288** | **288** | **0** | **0** | **1440** | | **0** |
| | | | **Total Copper MoR Ports** | | | **72** | **72** | **72** | **72** | **72** | **72** | **60** | | **492** | | |
| | | | **Fiber ports for Network** | | | **144** | **144** | **144** | **144** | **144** | **144** | **120** | **0** | **984** | Fiber OM4 trunk cables will be used towards MOR and fiber leaf switches will be installed in MoR<br>From each fiber leaf switch OM4 trunk will connect to spine switch with an oversubscription ratio of 1:6 considering a maximum acess port speed of 25 Gbps on leaf switch | |
| | | | **Fiber ports for Storage** | | | **288** | **288** | **216** | **216** | **288** | **288** | **120** | **0** | **1704** | | |
| | | | | | | | | | | | | | | | | |
| **2** | **Network Rack** | **15** | 2x24 | NA | 2x12 | | | | | | | | **15** | | | 0 |
| | | | **Total Network Copper Ports** | | | | | | | | | | **720** | | The Copper will be based on CAT 6A and the Fiber will be OM4 trunks will LC interfaces on the equipement side<br>All the copper and the fiber trunks will be terminated on a passive rack in row number 8 | |
| | | | **Total Network Fiber Ports** | | | | | | | | | | **360** | | | |
| | | | | | | | | | | | | | | | | |