

National Stock Exchange of India Limited

Circular

Department: MEMBER SERVICE DEPARTMENT	
Download Ref No: NSE/MSD/57389	Date: June 30, 2023
Circular Ref. No: 42/2023	

All Participants,

Sub: Co-location - Consolidated Circular

The Exchange has been issuing various circulars from time to time for matters related to Co-location services. To provide users easy access to all applicable circulars at one place a consolidated circular is being issued considering circulars issued till March 31, 2023. This consolidated circular encapsulates regulations /instructions of all earlier circulars issued by the Exchange from time to time and new instructions as applicable to Co-location services for Participants. The circular covers all aspects of Co-location services. Circulars for matters pertaining to connectivity offering via POP (Point of Presence) based Leased Line connectivity and User ID are to be referred to separately.

Participants desirous of availing Co-location facility or who have already subscribed to Exchange's Co-location facility shall have to strictly abide by the Co-location access policy, Guidelines (updated from time to time) and Circulars, at all times. Additionally, all communications/ instructions/ circulars/ directions from the Exchange have to be complied with in this regard. Any non-compliance shall invite disciplinary action by the Exchange which will be in accordance with Exchange Byelaws, Rules and Regulations.

Participants are requested to note that Exchange will provide co-location facility on a best effort basis and shall not be responsible for any direct/indirect/consequential loss/damage/claim of any kind for any reason whatsoever including but not limited to power failure, air conditioning failure, system failure and loss of connectivity etc. Further, the Exchange shall not be liable for discontinuation of co-location facility owing to legal and/or regulatory requirement. Colo participants are requested to note that the Exchange Co-location facility does not have a separate BCP / DR site and Co-location is **not available in the Exchange's DR facility**. Considering the current technology intensive environment in which Indian Securities market operates, to ensure stability in operations of colo participants and to protect the interest of investors and market at large, colo participants are advised to sufficiently review all potential risks along with its impact on the business and put in place Business Continuity Planning (BCP)/Disaster Recovery (DR) systems.

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No information has been rescinded for this consolidation, however, in future for any rescinded information, members may note the below:

Notwithstanding such rescission,

- a. Anything done or any action taken or purported to have been done or contemplated under the rescinded guidelines before the commencement of this Master Circular shall be deemed to have been done or taken or commenced or contemplated under the corresponding provisions of the Master Circular or rescinded guidelines whichever is applicable.
- b. The previous operation of the rescinded guidelines or anything duly done or suffered thereunder, any right, privilege, obligation or liability acquired, accrued or incurred under the rescinded guidelines, any penalty, incurred in respect of any violation committed against the rescinded guidelines, or any investigation, legal proceeding or remedy in respect of any such right, privilege, obligation, liability, penalty as aforesaid, shall remain unaffected as if the rescinded guidelines have never been rescinded.

In case of any technical queries relating to Co-location Services participants may contact the Colo support team on 022-26598815, 022-61124900 or mail on colosupport@nse.co.in . For all business-related queries participants can contact Member Services Department on 1800 266 0050 / or mail us at msm@nse.co.in

For and on behalf of
National Stock Exchange of India Limited

Bharat Gandhi
Chief Manager

Toll Free No	Email id
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CONSOLIDATED CIRCULAR ON CO-LOCATION SERVICES

June 2023

NATIONAL STOCK EXCHANGE OF INDIA LIMITED

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I. Introduction: -

In keeping up with the global trends and in continuation of service excellence, the Exchange is facilitating its members and vendors (under [CaaS](#)) hereafter referred as “Participants” to co-locate their Non-NEAT Front end (NNF) infrastructure at NSE premises.

Following are some salient features of co-location facility:

1. Co-location facility is used exclusively for NNF trading (i.e., CTCL / IBT / STWT / DMA / ALGO / SOR etc.) on NSE.
2. Order Connectivity and market data connectivity will be provided on 10Gbps network port.
3. Facilities with dual UPS power source and 100% DG capacity which ensures uninterrupted power.
4. Multiple Precision air conditioning units, with N+1 redundancy ensuring optimal temperature at all times.
5. Basic IT services namely Help Desk (24*7), Hardware Checks, Incident Management (Level 1), On-site coordination, Daily reports, named resource (SPOC) for the account and Power ON/OFF / Boot on request will be provided.
6. Exchange has two Time Synchronization services in Co-location facility i.e., Network Time Protocol (NTP) & Precision Time Protocol (PTP). Interested participants can use the same by contacting colo support team. Participants at their discretion can use any of the Time Synchronization service as per their requirement.
7. Exchange provides Multicast TBT feed in CM, F&O & CD segments to all racks in Co-location facility. Participants need not request for MTBT activation on rack as the same shall be provided as default along with rack allotment.
8. Exchange has made available access to test market environment (upon request) and daily simulated market environment (Live like environment) to members from Co-location facility. Members may refer circulars issued from time to time regarding the said facilities.

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II. Rack and the services provided by the Exchange:

- A. Rack: Rack is a designated space provided to the Participants in NSE premises. Racks in Co-location facility at the Exchange is provided in 3 variants as detailed below:

Particulars	Full Rack	Half Rack	Quarter Rack
Rack Space (Standard Units)	42	21	9
Power	6 KVA	3.5 KVA	1.75 KVA
Maximum Permissible Interactive IPS	40	20	10

Note: The Quarter racks shall be available for subscription only to Trading members.

B. Rack allotment process:

1. Exchange has provided electronic member interface 'ENIT' to participants for submission of all requests detailed in the circular pertaining to Co-location facility.
2. Participants intending to procure a rack shall be required to place rack allotment application via ENIT and subscribe to rack of their choice, if available. In case non-availability of racks, participants can submit a rack desire request through the same ENIT path.
3. Complete rack desire request received will be considered for allocating racks on first come first served basis.
4. On submission of rack desire request:
 - i. Deposit amount equivalent to 50% of the rack charges shall be payable within 2 working days till 3.30 pm from the request submission date. The said amount shall be collected from members Exchange dues account.
 - ii. A request shall be considered complete only if the requisite payment is received within the prescribed timeline.
 - iii. An estimated timeline for provisioning of rack shall be communicated to participants on processing of such request.
5. On provisioning of rack against a desire request:
 - i. Participants shall be informed via separate email alert.
 - ii. Participants shall be required to procure the provisioned rack by submitting the rack allotment request via ENIT within 3 working days from the date of such email alert.
 - iii. Participants will have an option to pass the available rack if they do not wish to subscribe for the same only if the rack variant available and variant requested in the rack desire are different. The same needs to be communicated via ENIT within 3 working days from the date of such email alert.
6. Preference shall be given to new members in Co-location facility for rack allotment.

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7. In case no action is taken as mentioned in point 5 within the prescribed timeline, the deposit amount collected shall be forfeited and such desire request shall be deemed rejected. Further, no request for extension of timeline shall be considered.
8. Participants shall be allowed to cancel the rack desire request in the same calendar month in which the request is submitted, and advance deposit collected, if any shall be refunded else the entire amount collected shall be forfeited.
9. Participants are requested to read the user manual before submitting the request on ENIT. The same is available on ENIT (Co-location module path).
10. Participants who have procured racks are directed to commence operations/trading from the said racks within 3 months from the date of allotment.
11. Member shall follow the existing process for user id as per Exchange circulars issued and updated from time to time.

Further, Exchange strongly advises all its Co-location participants to:

- a. Surrender the unused racks, if any.
- b. Consider consolidation of procured racks, if feasible.
- c. Use the racks space for server placement optimally.

For Provisional members (members in the process of seeking membership registration of the Exchange and have been offered provisional membership) who wish to procure racks in Co-location may apply to the Exchange in physical format as per Annexure 1 and email on msm@nse.co.in.

C. Charges: -

Co-location facility is a paid facility and the list of charges for different rack variants are as below:

RACK variant	CHARGES PER RACK P.A. (INCL. BASIC IT CHARGES) (IN RS.)	INITIAL SETUP CHARGES (IN RS.) (ONE TIME CHARGE PER RACK)
Full Rack	12,00,000	1,00,000
Half Rack	6,00,000	50,000
Quarter Rack	3,00,000	25,000

Members can opt from various message category mentioned below:

SR. NO.	MESSAGE CATEGORY (IP)	ANNUAL RECOVERY CHARGES (ARC)
1	Category A (40 m.p.s)	50,000
2	Category B (100 m.p.s)	2,50,000
3	Category C (200 m.p.s)	5,00,000
4	Category D (400 m.p.s)	10,00,000
5	Category E (1000 m.p.s)	25,00,000

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Note:

1. Base rate for first 10 Half Rack Equivalent (HRE) racks will be as above for a participant.
2. Charges for next 15 HREs will be 25% over the base rate.
3. Charges for racks above 25 HREs will be 50% over the base rate.
4. Backup restore facility (optional) will be charged at Rs 66000/- per rack.
5. Applicable service tax shall be levied on all the above charges
6. There are no charges for the first category A (40 m.p.s) connection / IP on a rack.
7. The NIL ARC Provision shall be considered as forfeited on such IP as mentioned in point 6, if after the allotment, category of such IP is changed by the member.
8. For subsequent connections / IP's subscribed by the member, applicable ARC charges shall be levied as per the respective category.
9. The Exchange reserves its right to revise the charges at its discretion.
10. Detailed information on charges is also available on Exchange website under path: NSE India > Trade > Platform and services > Connectivity & User Id > Co-Location facility.

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III. Power at Co-location racks:

Participants availing the racks in Co-location are required to monitor their power utilization in their respective racks and take steps to ensure that at no point of time they exceed the prescribed [limits](#). To encourage participants to strictly adhere to the power consumption limits, the Exchange has made effective following process to ensure enough deterrence coupled with fair warning and chance to correct course without affecting members' trading activity as far as possible.

A. Following are some important points for power consumption at Co-location racks: -

- Participants can install their own PDU's subject to adherence to the minimum technical specification specified by the Exchange from time to time.
- All IT equipment's installed in Co-location Rack should be branded and dual power supply only. In case a participant is installing single power supply equipment's in the rack Exchange will not be held responsible for any power outage.
- In case of power consumption exceeding 90%, the rack users shall receive information from Exchange via emails using the escalation matrix available with Exchange.
- On exceeding 100% utilization, the rack users shall be provided an opportunity to verify the consumption readings provided by the PDU installed by NSE / Rack users. Rack users shall be provided time till the ensuing weekend to satisfy themselves in this regard.

B. Actionable by the Exchange in case of Non-Adherence to Power consumption limits:

Any instances of exceeding 100% utilization shall result in initiation of action by Exchange as per the following stage wise action plan:

Stage	Number of days non-compliance in a calendar month	Action
I	1	Email warning
II	3	Charges of Rs.10,000 per rack per day of violation in the calendar month toward fair usage charges for power.
III	5	Charges as per stage 2 plus switching off power for 1 working day after providing 1 working day notice to provide time to member to rectify the issues, if any.
IV	Violation of 1 day after restart of rack	Charges as per stage 2 plus switching off power for 3 working days after providing 1 working day notice to provide time to the rack users to rectify the issues, if any.

Note: 1. Taxes as applicable shall be levied on above charges.
2. The charges will be collected from the Exchange Dues account for the participant.
3. For any technical queries regarding excess power consumption, requesting to get in touch with Colo_Support team at colosupport@nse.co.in

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IV. 'Co-location as a Service' (CaaS)

This initiative by the Exchange is to facilitate small and medium sized Members, who are not able to avail Co-location facility, due to various reasons including but not limited to high cost, lack of expertise in maintenance and troubleshooting, etc. Under CaaS, rack in co-location facility is allotted to empaneled vendors of the Exchange along with provision for receiving market data for further dissemination of the same to the trading member of the Exchange and the facility to place orders (algorithmic / non-algorithmic) by the trading members from Co-location.

Following are the salient features of CaaS in co-location facility:

- Vendors empanelled by the Exchange are eligible to provide CaaS service. List of empanelled vendors who shall be eligible to provide such service are as follows and is available on Exchange website on the below mentioned link:

<https://www.nseindia.com/trade/platform-services-non-neat-empanelled-vendors-of-the-exchange>

Sr. No.	Empaneled Vendors
1	M/s. Greeksoft Technologies Pvt. Ltd.
2	M/s. Symphony Fintech Solutions Pvt. Ltd.

- Vendors shall provide a fully managed end to end solution which can be used by trading members to trade from the Exchange's Co-location facility. Empanelled vendors shall have to make an application for rack in Exchange's Co-location facility through ENIT portal (<https://www.connect2nse.com/ENITInternal/VendorLogin.jsp>) along with the undertaking in the format as per Annexure 2.
- Vendor can apply for Point 2 Point (P2P) connectivity from any of the existing eligible [service providers](#) in Co-location through ENIT. Vendors may take one or more leased line to the co-location facility as per the Exchange policy in this regard from time to time.
- Vendor and desirous trading members are required to execute the Service Provider Agreement (SPA), in the format as per Annexure 3 for availing the service. (Certified true copy to be submitted to the Exchange).
- Vendors providing Co-location services to members of the Exchange shall have to adhere to the rules and provisions given as below:
 - Maximum permitted members availing vendor services per full rack shall be 20 and half rack shall be 10.
 - Vendor shall be permitted to have only one such contract with a particular member at any given point of time for CaaS.
 - Vendors shall be liable to all such charges as currently applicable to member for availing Co-location facility and as amended from time to time.
 - Vendor shall provide fair, transparent, and equitable access to all members availing the service and ensure confidentiality of information and data pertaining to each member.
 - Vendor shall be responsible for upkeep and maintenance of all infrastructure in their racks.

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- f. Vendor shall provide support to the members including BCP provisions, system audit etc. if required by the member.
 - g. Vendors shall be liable for half yearly system audit and shall refer the Exchange Terms of Reference (TOR) attached as Annexure 4 or as amended from time to time as per the following:

Sr. No.	Period	Timelines for submission
1	01 st April to 30 th September	On or before 30 th November
2	01 st October to 31 st March	On or before 31 st May
 - h. Vendors are required to submit the System Audit Report within the timelines on msm@nse.co.in, to avoid any penal/disciplinary action, as prescribed by the Exchange from time to time.
 - i. Exchange reserves the right to inspect and audit the infrastructure deployed by the Vendor for the service offering to members.
 - j. Vendor will not be allowed to use MTBT data for commercial purposes other than providing it to members availing their service in the rack allotted for trading on the Exchange.
6. Members shall be permitted to have only one contract with an empanelled vendor, subject however to maximum of 2 Vendors, at any given point of time for CaaS. Beyond this, members desirous of expanding their presence in Co-location are encouraged to seek independent racks in Co-location. Thus, members who have matured/ in future mature to independent rack ownership shall not have access to CaaS.
 7. Rack charges shall be borne by the vendor and order connectivity charges shall be borne by the member as applicable from time to time.
 8. Member shall exercise appropriate due diligence in respect of the services offered by Vendors. Exchange shall not be liable towards any member for any failure/incident which is the outcome of hosting solution provided by Vendor. Vendors providing services to members shall be out of Exchange purview, in relation to this service.
 9. Members shall execute a separate commercial contract/agreement with Vendor for availing his services which shall not be under the Exchange's purview.
 10. Member shall be required to take NNF product approval as per existing process and guidelines of the SEBI and Exchange before deploying through the Non-Neat Frontend (NNF) Trading System as per Exchange circulars as updated from time to time.
 11. Any member, who is desirous of availing such services from vendor, shall apply for interactive connectivity to Exchange via ENIT.
 12. Members may note that only 2 order connectivity's shall be permitted per member and vendor combination in any message category available from time to time.
 13. Member shall follow the existing process for user id as per Exchange circulars issued and updated from time to time.
 14. Member shall ensure fulfilment of Exchange compliance's related to trading such as base minimum capital requirement, mandatory monthly mock participation, periodic system audit report submission, etc. as communicated by Exchange from time to time.

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V. Point to Point Connectivity at Co-location:

Trading Members/Vendors availing Co-location facility are allowed to take one or more leased lines to the co-location facility from different telecom service providers for the purpose of setting up or modifying parameters, trading related activities and hardware, software, network related access, software download / upload and monitoring and data downloads. Such lines are called Point to Point links. Such link does not lie on the trading/data dissemination path of the Exchange. Point To Point links are not within the purview of the Exchange as they are procured by, paid for and maintained by the participant without Exchange intervention. The Exchange shall only provide NOC against the PTP application submitted by the participant.

The trading members/Vendors can submit Point to Point connectivity application through ENIT on the below mentioned path,

Members via ENIT Member Portal on Path: ENIT-NEW-TRADE > Membership > Co-location > PTP Requests

Vendors via ENIT Vendor portal on path: CaaS > PTP Request

Following are some of the location types, where members/vendors are allowed to extend the PTP link in India:

1. Members registered / dealing / branch office / Authorised Person
2. Members rack in Co-location facility of another recognized stock exchange in India
3. Members owned/hired rack in a third-party data center in India
4. A common designated access point/switch/router provided for the purpose at any other recognized Exchange in India
5. A common switch in India provided by the empanelled telecom service providers of Co-location
6. A common designated access point/switch/router provided by Financial Market Infrastructures regulated by RBI that offers trading/reporting of underlying assets on which the Exchange provides derivatives contracts.

To enable members to seek such links, the Exchange provides infrastructure in the form of racks to connectivity service providers based on Legal/technical/physical/commercial feasibility and limitations. Connectivity service providers can host their infrastructure in NSE designated areas and provide Point to Point Leased Line / MPLS services to NSE members located in Co-location facilities.

The following reputed national level telecom vendors are currently present in the Exchange Co-location to cater to member's needs with respect to leased lines to the co-location facility.

- Tata Teleservices Maharashtra Ltd.
- Tata Communications Ltd.
- Bharti Airtel.
- Microscan Infocommtech Private Limited.
- Tikona Infinet Private Limited.

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VI. Process for Empanelment/ Dis-empanelment of Connectivity Service Providers in Co-location:

A. Empanelment:

New Point to Point Link service providers desirous of providing leased line services to members in Co-location may make an appropriate application to the Exchange. The application shall have to be supported by the relevant documents as below on msm@nse.co.in

1. The entity has at least 3 years standing in the telecom industry with extensive coverage across metro cities and other major cities.
2. The applicant has necessary letter of intent/provisional orders from at least 10 unique members of the Exchange for PTP links at NSE Co-location.
3. Necessary licenses (DOT / NLD etc. as applicable) are available with the applicant to provide Point to Point connectivity. Service providers are required to submit the appropriate eligibility certificate from KPMG/ E&Y along with the application. The cost of such certificate shall be borne by the applicant. Applicants can contact the following consultants for the relevant details:

KPMG	
Kunal Pande Partner M: +91 9892600676 Email: kpande@kpmg.com	Deepak Varde Associate Director M: +91 9967604099 Email: deepakvarde@kpmg.com
E&Y	
Basant Shroff Partner M: +919820305923 Email: basant.shroff@in.ey.com	Dipen Thakkar Senior manager M: +919820444865 Email: dipen.thakkar@in.ey.com

Such applications shall be placed before the relevant authority/committee for scrutiny and processing. All applications received till April 30 of the respective financial year shall be considered. All applications shall be reviewed only once in a financial year. The review shall be completed by May 31st of the year. The applicants shall be communicated about the status of their application within 15 working days from the end of the review period. The revised list of connectivity service providers shall be updated in this document and uploaded on the Exchange website.

The authority/committee shall inter alia also consider the following while assessing the applications:

1. Availability of physical infrastructure such as rack space, cable duct space, inter rack cabling trays/duct, power etc. at NSE Co-location.

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2. Any other norms/pre-conditions that the appropriate authority/committee may decide from time to time.
3. The number of empanelled vendors shall be maintained at a minimum of four and a maximum of six.

Without prejudice to the right of the relevant authority/committee to frame rules; general rules and processes with respect to rack allocation to connectivity service providers at NSE designated areas (MMR- Meet me room) shall be as follows:

1. Only half rack shall be allotted at a time.
2. An existing empanelled connectivity service provider can later apply for additional racks.
3. Exchange shall endeavour to provide a rack in the designated area subject to availability on first come first served basis.
4. Currently there shall be a charge of Rs 50,000 plus applicable taxes per half rack per annum payable in advance for the financial year.
5. The service providers shall be liable to pay the rack charges in advance, within 30 days of billing date.
6. Additional racks shall be allotted subject to availability if connectivity service provider is not able to service clients located in Co-location due to technical/physical constraints via current allocated racks.
7. Exchange shall permit the connectivity service provider to interconnect racks based on technical and physical feasibility.
8. Such racks are not meant for trading and hence service/data etc. provided to normal racks shall not be available to such rack. Further, any scheme of rebate, discount, free period etc. by whatever name called shall not be applicable to such racks if made applicable to normal racks in Co-location.
9. It shall be the responsibility of the service providers to ensure that they are at all points of time eligible to provide such services as per the applicable rules and regulations. The Exchange shall have the right to take appropriate action as deemed necessary on receipt of any information that could result in the ineligibility of a connectivity service provider to provide such services.

B. Dis-empanelment:

The relevant authority/committee shall inter alia consider the following while assessing the continuous eligibility of a service provider:

1. After the end of one year from initial empanelment, service provider should have at least 12 distinct member clients OR should have at least 24 links being serviced AND the average number of links across all racks held should be at least 6.
2. There should be no amount outstanding from the service provider for over 6 months from the due date.
3. All documents as decided by the relevant authority/committee should have been duly executed and provided to the Exchange.

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4. The conduct of the service provider in terms of service to NSE members and sharing of relevant information with the Exchange from time to time should meet the expected minimum industry standards.

On failing to meet any one or more of the above criteria, the relevant authority/committee may issue an appropriate notice to the service provider giving 15 calendar days' time to represent its case. On being satisfied with the service provider's submission, the relevant authority/committee may accordingly pass appropriate directions. However, if the relevant authority/committee is not satisfied with the submissions, it may issue a termination notice providing 4 calendar months' time. After the end of the said notice period, the Exchange shall disconnect power to the racks held by the service provider and remove any material of the service provider from the rack without further notice or liability to NSE.

The relevant authority/committee, while conducting the above review shall always hold the interest of Exchange member's as supreme and shall be guided accordingly.

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VII. Co-location Datacenter access:

1. Physical access to co-location facility will be restricted only to the initial set up and access for periodic or urgent maintenance if any would be only with prior permission from NSE.
2. Physical access to Co-location facility to the participants and their authorized member/vendors will provided be any time of the day. For seeking access, participants must provide work permit to Colo support team and abide by guidelines as updated from time to time.
3. The Exchange will **not be responsible for insuring the member's assets at the co-location premises.** Participants should do the insurance of their IT equipment's installed in Co-location Datacenter.

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VIII. Various types of Co-location service requests offered by the Exchange:

Exchange has provided electronic member interface 'ENIT' to all members and CaaS Vendors for submission of co-location related requests.

Trading members can place Co-location related requests electronically through the interface provided by the Exchange i.e. ENIT (<https://enit.nseindia.com/MemberPortal/>) on path-

ENIT-NEW-TRADE > Membership > Co-location

The various types of requests and reports available under Co-location facility are as follows:

Sr. No.	Particulars	Summary
1.	Rack Desire	In case non-availability of racks, participants can submit a rack desire request.
2.	Rack Allotment	Member can place request for new rack allocation.
3.	Rack Surrender	Member can place request for surrender of active rack.
4.	IP Activation	Member can place request for new interactive IP on an active rack.
5.	IP Surrender	Member can place request for surrender of active interactive IP on a rack.
6.	Message Rate Change	Member can place request for change in existing message category of an active interactive IP.
7.	Cancellation of Request	Member can place cancellation request for cancellation of requests which are in submitted to Exchange status.
8.	PTP Request	Member can place request for PTP connectivity.
9.	Active IPs Report	Details of all active Co-location IPs, are available under this section.
10.	Status Report	Status of all co-location requests such as (rack allotment, rack surrender, IP activation, IP surrender etc.) can be tracked here.

Vendors are requested to login on <https://www.connect2nse.com/ENITInternal/VendorLogin.jsp> and submit the applications for "CaaS" (Co-location as a Service) on path-

Sr. No.	Particulars	Summary
1.	Rack Desire	In case non-availability of racks, participants can submit a rack desire request.
2.	Rack Allotment	Vendor can place request for new rack allocation.
3.	Rack Surrender	Vendor can place request for surrender of active rack.
4.	TM Enrolment	Vendor can place request for activating trading member for CaaS facility on a rack.
5.	TM Deactivation	Vendor can place request for deactivating trading member for CaaS facility on a rack.
6.	PTP Request	Vendor can place request for PTP connectivity.
7.	Status Report	Status of all co-location requests such as (rack allotment, rack surrender, IP activation, IP surrender etc.) can be tracked here.

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Notes:

1. Trading members are required to submit digitally signed Co-location requests through ENIT.
2. Requests submitted on or before 3:00 p.m. on a given working day shall be processed on best effort basis latest by T+2 working days.
3. Point to Point connectivity (PTP) requests submitted on or before 4:00 p.m. on a given working day shall be processed on best effort basis latest by T+2 working days.

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IX. List of important circulars issued by the Exchange related to Co-location.

Members are requested to refer to the Exchange circulars issued and updated from time to time for detailed information on the subject. A non-comprehensive list of important circulars is shared below:

Date	Subject	Circular No.
April 21, 2023	Revision in Terms of Reference (TOR) & Timelines for submission of System Audit Report of Vendors providing Co-Location as a Service (CaaS) facility.	NSE/MSD/56416
January 31, 2023	Timelines for submission of System Audit Report for Co-Location as a Service (CAAS) Vendors	NSE/MSD/55438
September 02, 2022	System Audit of Vendors providing Co-Location as a Service (CaaS) facility	NSE/MSD/53515
January 28, 2022	Colocation - revision in rack charges and allotment procedure	NSE/MSD/51160
September 17, 2021	Colocation - Expansion	NSE/MSD/49632
July 15, 2021	Colocation - Initiatives	NSE/MSD/48949
December 21, 2020	Colocation - Physical access to Phase V	NSE/MSD/46734
December 03, 2020	Expansion of Colocation capacity - Phase V	NSE/MSD/46538
October 17, 2020	Colocation - Physical access to Phase V	NSE/MSD/46050
September 30, 2020	Expansion of Colocation capacity - Phase V	NSE/MSD/45884
August 10, 2020	Digital acceptance of change in mapping of colocation and ASP request	NSE/MSD/45291
July 02, 2020	Colocation - Colocation as a Service (CaaS)	NSE/MSD/44872
October 22, 2019	Colocation (CaaS) - Digital submission of requests	NSE/MSD/42473
October 22, 2019	New ENIT - Colocation modules	NSE/MSD/42471
July 19, 2019	Colocation: Digital acceptance of Point to Point Connectivity application	NSE/MSD/41651
August 06, 2018	Digital submission of 'Colocation as a Service'(CaaS) application	NSE/MSD/38528
May 07, 2018	Introduction of 'Colocation as a Service' (CaaS)	NSE/MSD/37707
April 10, 2018	Measures to strengthen Algorithmic Trading and Co-location / Proximity Hosting framework	NSE/MSD/37476
April 10, 2018	Measures to strengthen Algorithmic Trading and Co-location / Proximity Hosting framework	NSE/MSD/37476
December 02, 2016	Review of guidelines for Co-location / proximity hosting facility offered by stock exchanges	NSE/MEM /33737
November 27, 2014	Charges for TBT on multicast	NSE/FA/28181
June 05, 2014	Co-location Services at NSEIL Premises	NSE/MEM/26869
March 05, 2013	Co-location Services at NSEIL Premises	NSE/MEM/22872

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November 12, 2012	Revision in charges for Co-location services offered by the Exchange	NSE/FA/22114
September 17, 2012	Revision in Annual recovery charges for A category (40 messages), S category (Connect2NSE) Leased Lines and VSAT	NSE/FA/21718
April 21, 2011	Co-location services at NSEIL premises	NSE/memb/17565
March 04, 2010	Co-location services at NSEIL premises	NSE/memb/14222
August 31, 2009	Co-location services at NSEIL premises.	NSE/memb/12985

This consolidated circular is a compilation of relevant circulars issued which are operational as on date of this circular. Efforts have been made to suitably incorporate and update the applicable provisions of existing circulars as per above table.