



Metropolitan Stock Exchange of India Limited

Metropolitan Stock Exchange of India Limited
IT Department

Master circular for connectivity

Circular No: MSE/IT/7271/2019

January 31, 2019

Subject: Master circular for Connectivity

To All Members,

In terms of provisions of the Rules, Bye-Laws and Regulations of Metropolitan Stock Exchange of India Ltd. (Exchange), members of the Exchange are notified as under:

Exchange has been issuing various circulars from time to time for network connectivity. In order to provide users an easy access to all applicable circulars at one place and also introduce new type of connectivity Master circular of connectivity is issued. This Master circular consolidates regulations /directions of all earlier circulars issued by Exchange from time to time and new directions applicable to Network Connectivity for members.

Members of the Exchange may access the On-line trading system through various modes of connectivity such as Multi-Protocol Label Switching, Point to Point and Internet. Members of the Exchange may choose the mode of connectivity and service providers best suited to their business needs and requirements.

Member would have following options to connect MSE.

1. MPLS
2. Point to Point leased line
3. Internet
4. Colocation facility.

Active Members of exchange can choose the mode of connectivity and service provider best suited for their business needs and requirement.

Charges for MPLS, P2P, and cross connect and Internet applicable from April 1, 2019 onwards, is enclosed with this circular.

For any clarifications, contact Customer Service on 022-61129010 or send email to customerservice@msei.in

**For and on behalf of
Metropolitan Stock Exchange of India Limited**

**Pravin Khismatrao
Assistant Vice President, Technology**

Metropolitan Stock Exchange of India Limited

(Formerly known as MCX Stock Exchange Ltd.)

Registered Office: 4th Floor, Vibgyor Towers, Plot No. C - 62, Opp. Trident Hotel, Bandra Kurla Complex, Bandra East, Mumbai 400098.

Tel: +91-22-6112 9000 | Fax: +91-22-6112 9009 | customerservice@msei.in | www.msei.in

CIN: U65999MH2008PLC185856

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1. Various modes of Connectivity

MSE technology infrastructure is the foundation of our business and a key factor in the Exchange's development. The Exchange's online trading platform is accessible to our members through our trader workstation or computer-to-computer link ("CTCL") using multiple connectivity media including, Leased lines – Point to Point, MPLS, and Internet.

The Exchange remains neutral with respect to selection of Service Provider. Wherever, Member wishes to apply through Exchange, the same shall be provided with best effort basis; in few cases, Service provider may not be able to provide connectivity as their infrastructure may not be feasible at customer office or there could be techno-commercial reason.

Members of the Exchange may choose any mode of connectivity and service provider(s) suitable to their business needs and requirements and make application(s) to the Exchange.

The Exchange strongly recommends that Members are required to avail connectivity from two different service providers for better uptime of connectivity & Business Continuity. Following Network Connectivity is introduced by the Exchange and Member can choose the connectivity as per their business requirements:

1.1. MPLS Leased Line

MPLS (Multi-Protocol Label Switching) is a mechanism in high-performance telecommunications network that directs data from one network to the next based on shortest path labels rather than long network addresses. MPLS can provide secure, cost effective, scalable and managed end-to-end network connectivity. The Exchange allows MPLS Leased Line connectivity upto 10 Mbps, i.e. (2/10Mbps). Member can avail MPLS leased line facility by submitting application for availing connectivity through Exchange.

1.1.1. Avail MPLS leased line through Exchange

Bandwidth	Available service providers
2 Mbps	Airtel and TCL
10 Mbps	Airtel and TCL

1.2. Point to Point Leased Line

Point-to-Point connection refers to a communications between two nodes or endpoints. The Exchange allows Point-to-Point Leased Line connectivity upto 10 Mbps, i.e. (2/10 Mbps). Member can avail Point to Point leased line facility by submitting application for availing connectivity either through Exchange or by applying direct to respective Service Provider. Members may please note that conversion of connectivity from Exchange & direct to service provider or vice versa is not permitted.

1.2.1. Option 1: Availing Point to point services through Exchange

Bandwidth	Available service provider
2 Mbps	MTNL,Airtel, TCL
10 Mbps	Airtel, TCL

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1.2.2. Option 2 – Avail Point-to-Point leased line directly from Service Provider to Colocation

Bandwidth	Application direct to Service Provider
2 Mbps	Airtel, TCL, Videocon, Reliance, Vodafone,
10/20/30/40/45	Airtel, TCL, Videocon, Reliance, Vodafone,

1.3. Internet

Internet is the global system of interconnected computer networks, Member can avail the Internet connectivity directly from the respective Service Provider. The Exchange has introduced 2 Factors Authentication SSL-VPN (secure socket layer) for users trading over Internet.

2. Network connectivity procedure for Point to point and MPLS leased line.

2.1 Application and Feasibility

2.1.1 Option 1 Avail Point-to-Point / MPLS leased line through Exchange

Members desirous of availing facility of 2/10 Mbps Point to Point and MPLS Leased Line connectivity through Exchange is required to send feasibility request over email to technology@msei.in as per Connectivity Form.

On receipt of the said e-mail, Exchange shall process feasibility of the location from the service provider/s as per the choice indicated by the member. Thereafter feasibility details will be intimated to the member through email for obtaining confirmation to process further. Validity of the feasibility declared by the respective service provider is 15 days, thereafter member is required to do re-feasibility. After receipt of the feasibility details from the Exchange, members are required to submit duly filled and signed undertaking as per Network Connectivity Undertaking-Leased Line to the Membership department.

2.1.2 Option 2 Avail Point-to-Point leased line directly from Service Provider

Members desirous of availing connectivity directly from the Service Provider, need to submit the application over email to technology@msei.in for obtaining No Objection Certificate (NOC) from the Exchange. While applying directly to the service provider member is required to submit the undertaking as per Network Connectivity Undertaking-Leased Line.

2.2 Commercials for Point to Point Leased Line

2.2.1 Option 1 Avail Point to Point Leased Line through Exchange

Charges to service Provider

Charges type	Bandwidth	MTNL/Airtel/TCL
One Time charges (OTC) in INR	2 Mbps	At actuals
Annual Recurring Charges (ARC) in INR	2 Mbps	At actuals
Charges type	Bandwidth	Airtel /TCL
One Time charges (OTC) in INR	10/20/30 Mbps	At actuals

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Annual Recurring Charges (ARC) in INR	10/20/30 Mbps	At actuals
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Note: The above links procurement applicable for Mumbai region only.

The applicable charges are exclusive of any government taxes, duties and levies and the same are to be paid **extra** by members.

Payment Terms: For the first financial year, the annual charges are to be paid in advance for the first year from the date of leased line commissioning. For the second financial year, the annual charges shall be calculated on a pro-rata basis from completion of first year till March 31st. For the third financial year and their onwards, the annual charges shall be payable in advance.

2.2.2 Option -2 Last mile charges for Private Point to Point Leased Line

Member is required to pay last mile charges (OTC and ARC) directly to service provider in case the point to point leased line is obtained directly from service provider.

2.2.3 Cross connect charges and Internet at IDC (applicable for Option 1 and option 2)

Charges TYPE	Bandwidth	Airtel	Reliance/ MTNL	TCL	Videocon
Internet from TCL at STT DC(INR)-OTC	2 Mbps	NA	NA	10,000	NA
Internet from TCL at STT DC(INR) ARC		NA	NA	1,05,000	NA
Cross connect at STT IDC(INR)* OTC	2 Mbps	10,000	10,000	10,000	10,000
	10/20/30/45/100 Mbps	At actuals	At actuals	At actuals	At actuals
Cross connect at STT IDC(INR)* ARC	2 Mbps	20,000	20,000	20,000	20,000
	10/20/30/45/100 Mbps	At actuals	At actuals	At actuals	At actuals

The above mentioned charges are exclusive of any government taxes, duties and levies and the same are to be paid extra by members. Cross connect charges are Non-Refundable.

***All Fiber cross connects charges applicable at actuals as per Service providers from date of commission.**

Copper Cross Connect charges applicable for the P2P links at Colocation commissioned after 1 April 2019.

Payment Terms: Payment Terms: For the first financial year, the annual charges are to be paid in advance for the first year from the date of leased line commissioning. For the second financial year, the annual charges shall be calculated on a pro-rata basis from completion of first year till March 31st. For the third financial year and their onwards, the annual charges shall be payable in advance.

Member is required to pay One Time charges and Annual Recurring Charges (ARC) for one year in full plus applicable taxes by way:

1. Cheque/Demand draft in the name of "Metropolitan Stock Exchange of India Ltd."
2. Charges as stated above will be debited to member's Exchange Dues account annually in advance basis.
3. Or member can pay charges through NEFT as per point 4.4

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Early Surrender Charges (ESC):

- There is a minimum Contract tenure of one year i.e. lock in period shall commence from the date of commissioning.
- If the member opts to surrender the connection within the lock in period, member shall require making the payment for remaining period of lock in period.
- In case the member opts to surrender the link after completion of lock in period, member will be required to give 30 Days' notice along with payment for the said link till notice period.

2.3 Commercials for MPLS Leased Line

Charges type	Bandwidth	Amount (INR) TCL	Amount (INR) Airtel
One Time charges (OTC) in INR	2 Mbps	12,500	12,500
Bandwidth and Router (CPE) Rental Annual Recurring Charges-(ARC)	2 Mbps	95,000	96,000

***Charges for 10 Mbps MPLS will be shared post feasibility.**

Payment Terms:

For the first financial year, the annual charges are to be paid in advance for the first year from the date of leased line commissioning.

For the second financial year, the annual charges shall be calculated on a pro-rata basis from completion of first year till March 31st.

For the third financial year and their onwards, the annual charges shall be payable in advance.

Member is required to pay One Time charges and Annual Recurring Charges (ARC) for one year in full plus applicable taxes by way:

- Cheque/Demand draft in the name of "Metropolitan Stock Exchange of India Ltd."
- Charges as stated above will be debited to member's Exchange Dues account annually in advance basis.
- Or member can pay charges through NEFT as per point 4.4

Early Surrender Charges (ESC):

- There is a minimum Contract tenure of **3 years** i.e. locks in period shall commence from the date of commissioning.
- If the member opts to surrender the connection within the lock in period, member shall be required to make the payment for remaining period of lock in period as per service provider's invoice.
- In case the member opts to surrender the link after completion of lock in period, member shall require giving 30 Days' notice along with payment for the said link till notice period.

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2.4 Upgrading Leased line connectivity

Members desirous of upgrading Leased line connectivity obtained from Exchange, are required to submit duly signed application as per the Connectivity Form to Membership department. The charges for upgrading the leased line would be charged on pro-rata basis as per the charges confirmed by service provider. On receipt of the demand note / invoice from the respective service provider, Exchange would inform member about the additional charges applicable for the upgrade. If the Upgradation of leased line connectivity is not feasible at the location, the same will be intimated to the member through email.

In case of connectivity is taken directly from the service provider, Member needs to inform Exchange regarding upgrading of the connectivity through email technology@msei.in for record and user ID mapping.

2.5 Shifting of Leased line connectivity

Members desirous of shifting MPLS or Point to Point leased line connectivity are required to e-mail the new location details to technology@msei.in as per Connectivity Form. If the shifting of leased line connectivity is feasible at new location, the same will be intimated to the member. Thereafter members should submit duly signed application as per the Network Connectivity Form to MSE membership department. Shifting charges will be debited after completion of shifting of the connectivity from the settlement account of their respective Clearing Member based on Network Connectivity Form submitted by Member to the Exchange.

2.5.1 Commercials and criteria for shifting of Leased Line

Type of connectivity	Service provider	Location	Shifting charges(INR)
MPLS & Point to Point	Airtel/TCL	Allowed only within city and subject to feasibility of the new location.	10,000
Point to Point	MTNL	Allowed only within city and subject to feasibility of the new location.	As per the shifting demand note amount raised by MTNL.

The above mentioned charges are exclusive of any government taxes, duties and levies and the same are to be paid extra by members.

Payment terms:

- In case of Point to Point leased line connectivity directly applied to service provider then Member needs to inform Exchange for change of Installation address via email technology@msei.in for record.
- Cheque/Demand draft in the name of "Metropolitan Stock Exchange of India Ltd."
- Charges as stated above will be debited to member's Exchange Dues account annually in advance basis.
- Or member can pay charges through NEFT as per point 4.4

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2.6 Surrendering of Leased line connectivity

- Members desirous of surrendering network connectivity are required to submit duly signed application as per the Connectivity Form to MSE membership department. Members are not entitled for refund of any Annual Recurring Charges (ARC) if the network connectivity is surrendered within a 3 years of installation the early surrender charges are applicable. From fourth year onwards, members will be entitled to get refund of pro-rata annual recurring charges from service provider for the unexpired portion of that year. The un-expired portion shall constitute the period after completion of one month notice in case of Airtel and TCL from the date of submission of surrender application to service provider.
- The applicable refund amount will be credited to member's settlement account as and when the same is received by the Exchange from the respective service provider. For surrender of MTNL leased line connectivity the refund amount if any, will be credited to members settlement account as and when the same is received by the Exchange from MTNL.
- Members are requested to note that, cross connect charges will not be refunded with respect to financial year for which the same have been recovered, even if the leased lines/cross connects are surrendered/cancelled prior to end of such financial year.

The Exchange shall process the application on receipt of complete documents as prescribed and after verifying for the dues if any and related compliance formalities.

Important Note:

- a) For MTNL leased line connectivity member needs to submit modem to MTNL Telephone Exchange and submit the modem surrender acknowledge copy to Exchange or else MTNL will charged for leased line connectivity to member till date the modem is not submitted to MTNL telephone exchange.
- b) Members who are using only Point to point Leased circuit(s) to connect to the primary site of the Exchange are advised to have alternate mode of backup network connectivity either MPLS leased line or Internet to ensure that they are able to connect to DR site of the Exchange to participate in Mock Trading or live trading from DR site.
- c) It is recommended that Members are required to avail connectivity from two different service providers for redundancy and uptime of network connectivity & business continuity.
- d) Network feasibility at member's location is at the discretion of the service provider chosen by the member.
- e) Network latency may vary depending upon the mode of connectivity and the geographical distance between Member's trading location and the Exchange.
- f) Exchange has always put best efforts to deliver any network connectivity at the earliest. However considering dependency on service provider, turnaround time for feasibility check is 1 week, for application process and payments if applicable is 1 week and connectivity delivery is 6 weeks.
- g) Upon surrendering the network connectivity, members are required to return back all applicable network termination equipment owned by the service provider to ensure no commercials implications.

3. 2 factor SSL VPN for Internet connectivity

Member to request for SSL user ID as per the annexure mentioned in Circular No: MSE/IT/6930/2018 for enabling TWS user ID over SSL VPN.

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4. Annexures

4.1 Connectivity Form

On company's letterhead

Date:

To
The Membership Department
Metropolitan Stock Exchange of India Limited.
4th Floor, Vibgyor towers, plot no.C-62.
Opp. Trident Hotel Bandra Kurla Complex,
Bandra East Mumbai – 400098

Member Name:

Member ID:

Connectivity preference

MPLS

Point to Point

Cross connect

APPLICATION TYPE	Tick <input checked="" type="checkbox"/>
New Order*	
Shifting	
Upgradation	
Downgrade	
Surrender	
No Objection Certificate (NOC) for Private Point to Point	

Dear Sir,

Sub: **Application for Connectivity**

We would like to apply for lease line connectivity as per details given below.

Contact details:

Sr.No.	Name of Trading Member	
1	Member ID	
2	Type of Office	
3	Installation Address***	
4	City	
5	Pin Code	
6	Dist & State	

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7	Contact person name	
8	Contact Number (Landline)	
9	Contact Number (Cell Phone)	
10	Fax number	
11	E-mail ID	
12	Feasibility of the location checked with the Exchange	Yes/No
13	Circuit ID's ****	

Scenario details:

1	Connectivity Scenario	S1, S3
2	Bandwidth	
3	First Service Provider	
4	service provider for back-up	

*** In case of shifting please mention new address.

**** Mandatory for shifting / upgrade / downgrade/ surrender application.

We hereby confirm that the installation address mentioned above is (please tick the option as applicable)

- Registered Office Address of the Member
- Branch Office address of the Member
- Address of our Registered Authorized Person (AP) with the Exchange
- Third Party Datacenter

Thanking you.

Yours faithfully

For (Name and signature of the authorized signatory with Company seal)

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Terms and Condition:

Surrender:

Kindly remove mapping of the following USER IDs from the said MPLS / Point to Point (Provide only the user ids below):

a) b) c) d) e)

We hereby certify that No USER IDs other than mentioned above are mapped on the said MPLS / Point to Point.

We hereby agree and bind ourselves to be responsible for all acts, quotations and transactions done, trade made of affected by the users mapped on the said connectivity on the trading system. We will be responsible to Exchange for clearing any dues for these User(s).

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4.2 Authorization letter

Format for **Trading Member** (Authorization letter from PCM/ITCM/TCM in favor of the Exchange to debit Annual Recurring Charges)

To be printed on letter head of the respective PCM / ITCM / TCM

Date:

To
The Membership Department
Metropolitan Stock Exchange of India Limited.
4th Floor, Vibgyor towers, plot no.C-62.
Opp. Trident Hotel Bandra Kurla Complex,
Bandra East Mumbai – 400098

Dear Sir,

Sub: Leased circuit annual recurring charges debit facility for our Trading member,

_____ (Name of the Trading Member) having Member ID _____.

This has reference to Exchange circular no. _____ dated _____.

I / we authorize Exchange to debit our settlement account no. _____ in
_____ (Name of the bank) towards the annual recurring charges of leased
circuit.

For _____
(Name of PCM / ITCM / TCM)

Authorized Signatory

Name -

Member ID -

Rubber Stamp:

Place:

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4.3 Network Connectivity Undertaking-Leased Line

(On Non-judicial stamp paper of Rs. 300/-)

UNDERTAKING CUM INDEMNITY

(For Leased Line Connectivity)

This Non-Judicial Stamp paper of INR _____ forms part and parcel of this Undertaking cum Indemnity submitted to Metropolitan Stock Exchange of India Limited executed by Mr. /Mrs. /M/s _____ on _____ day of _____, 20____.

THIS UNDERTAKING CUM INDEMNITY is made on this day of , 20 by admitted as a Trading-Cum-Clearing Member/ Institutional Trading Cum Clearing Member/ Professional Clearing Member (Member ID No:_____) of Metropolitan Stock Exchange of India Limited and having his address/its registered office at

.....(Herein after referred to as “member/I/we/me/us” which expression shall unless repugnant to the context or meaning thereof include his/its heirs, successors, assigns and legal representatives)

IN FAVOUR OF Metropolitan Stock Exchange of India Limited, a company incorporated under the Companies Act, 1956 with its corporate office at Vibgyor Towers, 4th Floor, Plot No C-62, Opp. Trident Hotel Bandra Kurla Complex, Bandra (E), Mumbai – 400098 (hereinafter referred to as “MSE” which expression shall unless repugnant to the context or meaning thereof include its successors or assigns

MEMBER TO USE THE, I / WE UNCONDITIONALLY AND IRREVOCABLY UNDERTAKE AND AGREE:

1. I/We agree that the Leased Line will be used purely for the purpose of trading on MSE only.
2. I/We agree that this Leased Line will not be interconnected to any of the Leased Line / Data circuit / Network / PSTN / EPABX etc. of any other service providers which are not permitted by the terms and conditions of Telegraph Authority. I / We further agree to extend facility to the Telegraph authority in order to enable monitoring of the purpose, performance and operation of the circuit, as and when required.
3. I/We hereby agree to abide by the provisions of Indian Telegraph Rules in force and as modified from time to time and such other terms and conditions prescribed by the telegraph Authority.
4. I/We agree that necessary charges for registration / installation / Advance annual rental / Arrears, if any will be paid to the controlling / billing authority of service provider & MSE, as and when we receive demand note / advice from service provider / MSE and when such charges become due.

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5. I/We agree that I/We shall pay the surrender charges and other expense as Prescribed under **MSE Circular Ref No. MSE/IT/7271/2019 dated 31.01.2019** and any subsequent circulars issued in this respect, from time to time, in the event of surrender of my /our leased line(s) connectivity.
6. I /we agree that I / we shall pay the cancellation charges and other expenses incurred to establish the Leased Line as requested by me / us that may become payable, in the event of cancellation of the application / closure of the Leased line at a later date.
7. I/We do hereby agree to indemnify the Govt. of India / DOT / Service provider and keep them indemnified against any loss damage claim, cost, charges, expenditure incurred by or made against them in respect of loss of rent / call charges, violation of C.U.G. norms due to misuse of the Leased Line or otherwise whatsoever in the matter.
8. In case service provider provides us modems, it will be our responsibility to maintain the same safely. In case of any physical damage or theft we will bear the charges specified by service provider.
9. I/ we undertake to authorize MSE to inspect and test IT Infrastructure related to trading system at my/our site without any prior notice.
10. I / We shall render all possible assistance and co-operation to MSE by providing access to any kind of information in any form as it may require and I/we hereby undertake to produce such documents, records, accounts, books, data howsoever stored including data stored in magnetic tapes, floppy diskettes, etc. and any other information as may be required by MSE at its discretion.
11. I / We agree and undertake that MSE shall not be liable for any direct or indirect loss, damage, costs, claims and expenses whatsoever caused or contributed by any event of force majeure. For the purposes of this Clause, "Force Majeure" means and includes wars, insurrections, revolution, fires, floods, epidemic, quarantine restrictions, declared general strikes in relevant industries, act of God, act of the Government of India and any concerned State Government and such other acts or events beyond MSE's control and further the above is without prejudice to the rights already accrued to MSE due to my/our failure to perform either in full or in part, my/our obligations prior to the occurrence of events of Force Majeure.
12. I / We shall not hold MSE responsible or liable for any loss, damage, etc., suffered due to any delay, disturbance or non-availability of connectivity or due to any reason because of Service Provider /Network Integrator or otherwise, at any time including the reasons stated in Force Majeure clause hereinabove.
13. I / We shall indemnify and keep indemnified MSE harmless against every and all claims, demands, damages, liabilities, losses and expenses, etc., suffered by it directly by reason of my / our non-compliance, contravention with any of the provisions of this Undertaking or any penalty imposed by Service Provider /Network Integrator or DOT /Regulatory or statutory Authorities, due to my/ our non- compliances or violation of any provisions of the applicable Act(s) or Rules and Regulations in force.

Metropolitan Stock Exchange of India Limited

(Formerly known as MCX Stock Exchange Ltd.)

Registered Office: 4th Floor, Vibgyor Towers, Plot No. C - 62, Opp. Trident Hotel, Bandra Kurla Complex, Bandra East, Mumbai 400098.

Tel: +91-22-6112 9000 | Fax: +91-22-6112 9009 | customerservice@msei.in | www.msei.in

CIN: U65999MH2008PLC185856

14. I / We agree that no forbearance, delay or indulgence by MSE in enforcing the provisions of this Undertaking shall prejudice or restrict the rights of MSE nor shall any waiver of its rights operate as a waiver of any subsequent breach and no rights, powers, remedies herein conferred upon or reserved for MSE is exclusive of any other right, power or remedy available to MSE and each right, power or remedy shall be cumulative.

15. I/ We hereby undertake and agree that this Undertaking-cum-Indemnity shall be valid and effective for any leased line(s) obtained by the undersigned for connecting to MSE, from time to time. Further, this Undertaking-cum-Indemnity does not lapse till such time, the Exchange discharges the undersigned.

16. That I / we shall execute, sign and subscribe to such other documents, papers, agreement, covenants, bonds, and/or undertakings as may be prescribed or required by MSE from time to time.

17. I/We also agree that in the event of my/our non-compliance with any of the provisions as mentioned above, MSE shall take such action(s) against us as it may deem fit in this regard.

IN WITNESS WHEREOF this Undertaking-cum-Indemnity is executed by the undersigned on the day, month, year and the place mentioned above

Name, address & signature	Stamp & Signature of the Authorized
Witness 1	Signatory of Member
Witness 2	

Date:

Place:

The common seal of _____

was hereunto affixed pursuant to a resolution passed at a meeting of The Board of Directors of the company held on _____ day of _____, 20____ in the presence of * _____.

Signature 1

Signature 2

Stamp

Stamp

* As required by the Articles of Association of the Company

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4.4 NEFT details

Particulars	Details
Beneficiary Name	Metropolitan Stock Exchange of India Ltd
Bank A/c No	00600340041194
Bank	HDFC BANK LTD.
Branch	Fort Mumbai
Account Type	CURRENT
IFSC Code	HDFC0000060

4.5 Technical support contact details of service provider

AIRTEL

Centralized Fault Management	1800-102-001
Email address	enterprise.data@in.airtel.com

TCL

Centralized Fault Management	1800 2660 660
Email address	corp.helpdesk@tatacommunications.com

MTNL

CSQ	022-61129010
Email address	customerservice@msei.in

Escalation matrix of MSE

Level	Contact details	Email ID
1	Technical support 022-61129014	technology@msei.in
2	Mr. Bhupendra Bhoir 022-61129179	Bhupendra.Bhoir@msei.in
3	Mr. Pravin Khismatrao 022-61129011	Pravin.khismatrao@msei.in

4.6 Checklist for Applications to MSE

4.6.1 Application for New links

- Connectivity form
- Authorization letter
- Network Connectivity Undertaking-Leased Line. Member to provide undertaking first time only.

4.6.2 Upgradation/Shifting/NOC

- Connectivity form

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