



NSE Historical Data Order and Trade Specification

Version: 1.19

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NSE DATA & ANALYTICS LIMITED
EXCHANGE PLAZA,
PLOT NO. C/1, G BLOCK,
BANDRA-KURLA COMPLEX,
BANDRA (E), MUMBAI 400 051.
INDIA.

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Revision History

Name	Description	Date
Version 1.0	Technical specification document issued for Capital Market and Futures & Options	24 December 2007
Version 1.1	Currency Derivatives segment added	24 August 2008
Version 1.2	Change in trade size of trade number in FAO segment.	07 September 2020
Version 1.3	Split file nomenclature for FAO segment added	02 November 2020
Version 1.4	Trigger file details for all segments added	26 November 2020
Version 1.5	Addition of two new streams for FAO Trades and Orders files each (Increased from 6 to 8)	08 March 2021
Version 1.6	Addition of two new streams for FAO Trades and Orders files each (Increased from 8 to 10)	11 October 2021
Version 1.7	Addition of two new streams for FAO Trades and Orders files each (Increased from 10 to 12)	24 January 2022
Version 1.8	Addition of Limit Price Indicator flag in Orders files for FAO and CD Segment	01 February 2022
Version 1.9	Addition of three new streams for FAO Trades and Orders files each (Increased from 12 to 15)	11 April 2022
Version 1.10	1. Addition of one new stream for FAO Trades and Orders files each (Increased from 15 to 16) 2. FAQ section added	05 September 2022
Version 1.11	1. Commodity Derivatives segment 2. Revision in remarks column for Limit Price Indicator in FAO Order 3. Revision in remarks column for Limit Price Indicator in CD Order. Limit Price Indicator interpretation explanation added in FAQ section	15 December 2023
Version 1.12	1. Addition of two new streams for FAO Trades and Orders files each (Increased from 16 to 18)	08 April 2024
Version 1.13	Trade numbers changed from 16 to 17 digit in CM Trades	01 July 2024

Version 1.14	1. Split file nomenclature for CM segment added 2. "Volume Disclosed" and "Volume Original" fields length increased from 8 to 10 digits in CM Orders 3. "Trade Quantity" field length increased from 8 to 10 digits in CM Trades 4. Addition of Section 6. Jiffy Time Conversion 5. FAQ updated	16 June 2025
Version 1.15	1. Addition of Section 7. Important Notes 2. Addition of Section 8. About SFTP (Secure File Transfer Protocol) 3. Added 2 questions in general FAQs section 4. Added 1 question in Historical Data Download	15 September 2025
Version 1.16	1. Modified the "Valid Range of Values" column for the "Limit Price Indicator" field for FAO segment in section 2.1 and for CD segment in section 3.1 2. "Strike Price", "Limit Price" and "Trigger Size" fields length increased from 8 to 10 digits in Orders file for Commodity segment 3. "Strike Price" and "Trade Price" fields length increased from 8 to 10 digits in Trades for Commodity segment 4. Added 1 question in FAQ section 9.5 5. In Section 7.1, the increase of byte size of Order and Trade file for commodity segment has been added	01 November 2025
Version 1.17	1. Addition of market status Pre-Open 'PO' in Record Indicator of FAO Order Data 2. Addition of market status Pre-Open 'PO' in Record Indicator of FAO Trade Data 3. Addition of Section 9. Annexure	08 December 2025
Version 1.18	1. Addition of Section 1. Introduction 2. Addition of section 2 trimmed version in CM, FO, CD and COM 3. Addition of Section 5.4 Interpreting Valid Range of Values 4. Addition of Section 5.5 Interpreting Volumes 5. Added FAQ in Section 8.4 Historical Data Download (Through Downloader application) 6. In FAQ section: • Addition of Section of 8.6 End of Day download (through Cloud) • Added FAQ in Section 8.1 General	18 May 2026

Version 1.19	1. Addition of market status Closing Auction 'CA' in Record Indicator of Full version of Cash Market Orders Data 2. Addition of market status Closing Auction 'CA' in Record Indicator of Trimmed version of Cash Market Trades Data 3. Addition of market status Closing Auction 'CA' in Record Indicator of Full version of Cash Market Trades Data 4. Addition of market status Closing Auction 'CA' in Record Indicator of Trimmed version of Cash Market Trades Data	03 August 2026
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1. Introduction

NSE Data & Analytics Ltd. (NDAL) offers real-time data and historical data products from NSEIL to a diverse range of clients. This includes real-time products and historical data products:

Real Time data products

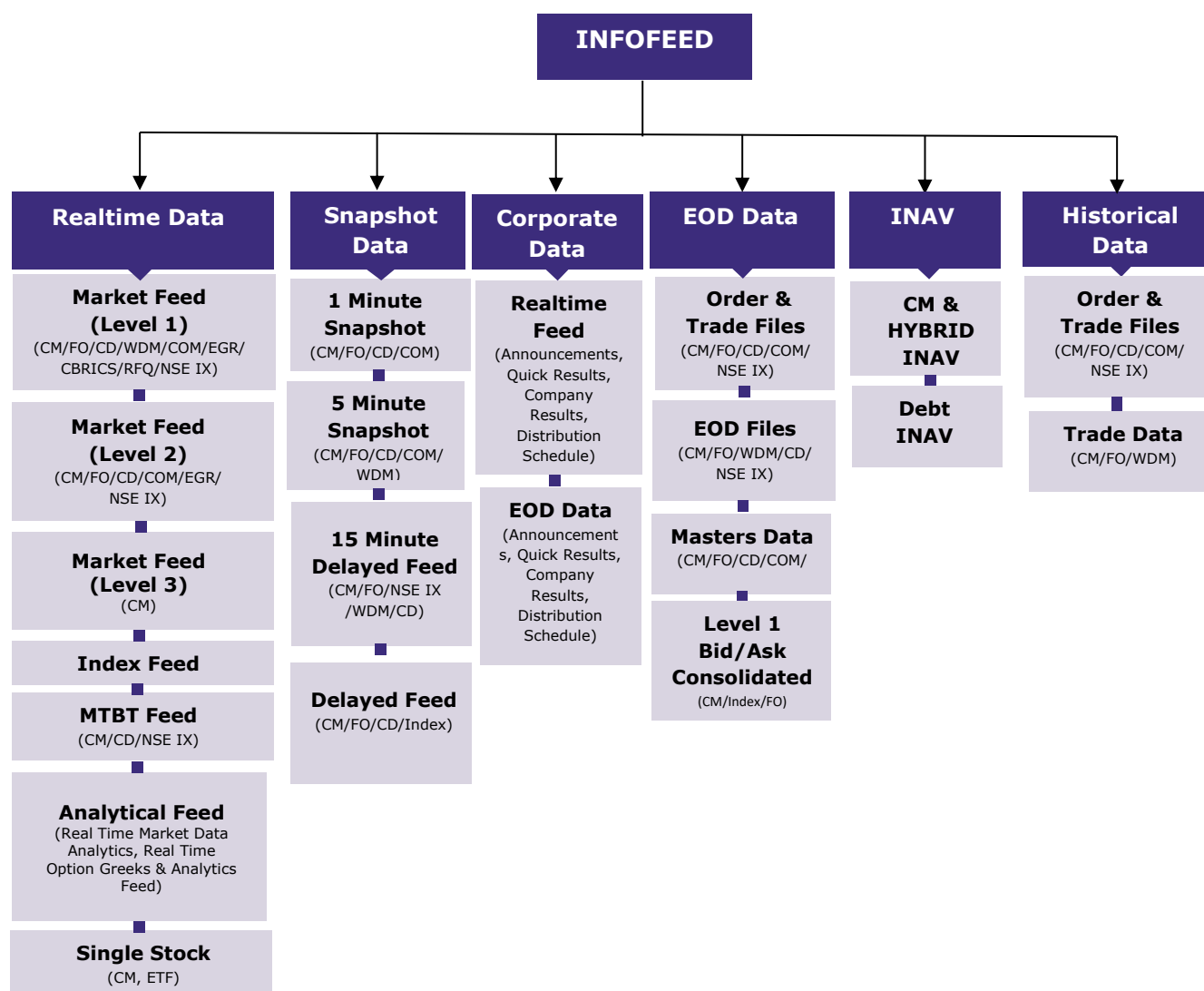
1. Real Time Data
2. Snapshot Data
3. Corporate Data
4. Analytical Products data
5. Indicative NAV Data

Historical data products

1. End of Day Data
2. Historical Data

The data products are provided through delivery modes mentioned below:

- **Real-time Data:** The information is transmitted as a packet broadcast, facilitating ongoing distribution through data feeds via point-to-point leased line and the snapshot data through SFTP protocol.
- **End-of-Day and Historical Data:** The data is delivered as downloadable files over the internet using the SFTP protocol and through cloud.



NSE Data & Analytics Ltd. (NDAL) provides a comprehensive suite of real-time and historical market data products sourced from NSEIL, supporting a wide range of analytical, and archival use cases across the Capital Market (CM), Futures & Options (FO), Currency Derivatives (CD), Commodity Derivatives (COM), and NSE IX segments. These products deliver both high-frequency intraday information and structured End-Of-Day (EOD) datasets to meet diverse client requirements.

The Historical Order & Trade Data product set forms a key part of this ecosystem. It offers complete timestamped historical records of order-book events and executed trades, enabling users to study liquidity behaviour, perform execution analysis, and develop research or compliance workflows. The data is published in standardized, readable file formats.

Historical/ EOD datasets including Orders Files and Trades Files are delivered through secure, internet-based channels using the SFTP protocol and through Cloud, ensuring reliable access regardless of client infrastructure.

This document provides the complete technical details required to download, interpret, and process historical order and trade data for all supported market segments.

2. Trim version of Orders & Trades

2.1 Trim version of Orders & Trades

The Trim version of Orders and Trades messages is an optimized dataset derived from the Full version, containing a select subset of key fields that are most relevant for common analytical and historical use cases. This version excludes auxiliary fields while retaining core information such as identifiers, timestamps, prices, quantities, and primary indicators required to interpret order and trade activity.

Despite field reduction, the Trim version maintains data consistency, fixed-length records, and segment-wise structural alignment with the Full version.

2.1.1 Cash Market/ Equity Orders Data

		Message Layout				
Name		Cash Market/ Equity Orders Data (Trim)				
Frequency		All order ticks				
Record length		Fixed				
Record Delimiter		LF				
File Availability		EOD				
Field No.	Field Name	Field Description	Type	Length (No. of Bytes)	Valid Range of Values	Other Comments
1	Record Indicator	Regular Market	Alphabetic	2	'PO' 'RM' 'CA'	'PO'=Pre-Open 'RM'=Regular Market 'CA' = Closing Auction
2	Segment	Segment	Alphabetic	4	'CASH'	
3	Order Number	Order Number	Numeric	16		
4	Transaction Time (Jiffies)	Time when transaction occurred	Numeric	14		65536 Jiffies = 1sec Jiffies are counted from 1 Jan 1980 midnight
5	Buy / Sell Indicator	Order Type	Alphabetic	1	'B', 'S'	'B' = Buy 'S' = Sell
6	Activity Type	Transaction Type	Numeric	1	1,3,4	1 - Order Entry 3 - Order Cancel 4 - Order Mod
7	Symbol	Security Symbol	Alphabetic	10		The values in this field will be padded with leading b's when < 10 chars. E.g. Symbol ABC will be "bbbbbbbABC"
8	Series	Series	Alphanumeric	2		Different series such as EQ, BE, BL, DR etc.
9	Buy/ Sell Order Quantity	Order Quantity	Numeric	10	Non-Zero, Non-Negative	The value in this field be padded with leading zeros when < 10 places. E.g. 1234 will be "0000001234"

10	Buy/Sell Price	Order Price	Numeric	8	Non-Zero, Non-Negative	The value in this field will be in paise wherein the right most 2 digits will indicate values after decimal point. The value in this field will be padded with leading zeros when < 8 places. E.g. 123.45 will be "00012345"
Total Length				68		



2.1.2 Cash Market/ Equity Trade Data

Message Layout						
Name		Cash Market/ Equity Trade Data (Trim)				
Frequency		All trade ticks				
Record length		Fixed				
Record Delimiter		LF				
File Availability		EOD				
Field No.	Field Name	Field Description	Type	Length (No. of Bytes)	Valid Range of Values	Other Comments
1	Record Indicator	Pre-Open or Regular Market	Alphabetic	2	'PO' 'RM' 'CA'	'PO' = Pre-Open 'RM' = Regular Market 'CA' = Closing Auction
2	Segment	Segment	Alphabetic	4	'CASH'	
3	Trade Time (Jiffies)	Time when transaction occurred	Numeric	14		65536 Jiffies = 1sec. Jiffies are counted from 1 Jan 1980 midnight
4	Symbol	Security Symbol	Alphabetic	10		The values in this field will be padded with leading b 's when < 10 chars. E.g. Symbol ABC will be "bbbbbbbABC"
5	Series	Series	Alphanumeric	2		Different series such as EQ, BE, BL, DR etc.
6	Trade Price	Transaction Price	Numeric	8	Non-Zero, Non-Negative	The value in this field will be in paise wherein the right most 2 digits will indicate values after decimal point. The value in this field will be padded with leading zeros when < 8 places. E.g. 123.45 will be "00012345"
7	Trade Quantity	Transaction Quantity	Numeric	10	Non-Zero, Non-Negative	The value in this field will be padded with leading zeros when < 10 places. E.g. 1234 will be "0000001234"

8	Buy Order Number	Buy Order Number of Transaction	Numeric	16		
9	Sell Order Number	Sell Order Number of Transaction	Numeric	16		
Total Length				82		

NOTE: To reduce the download time of the single file, the existing single file of Order and Trade files have been split into multiple files, and their nomenclature are given below:

Orders Files	Trade Files:
1. CM_Orders_T_DDMMYYYY_01.DAT.gz	1. CM_Trades_T_DDMMYYYY_01.DAT.gz
2. CM_Orders_T_DDMMYYYY_02.DAT.gz	2. CM_Trades_T_DDMMYYYY_02.DAT.gz
.	.
.	.
N. CM_Orders_T_DDMMYYYY_NN.DAT.gz	N. CM_Trades_T_DDMMYYYY_NN.DAT.gz
N* ---Number of streams in sequential order	N* ---Number of streams in sequential order

Note: Number of streams may increase in the future.

2.1.3 Futures & Options (FAO)/ Equity Derivatives Order Data

Message Layout						
Name		Futures & Options/ Equity Derivatives Market Orders Data (Trim)				
Frequency		All order ticks				
Record length		Fixed				
Record Delimiter		LF				
File Availability		EOD				
Field No.	Field Name	Field Description	Type	Length No. of Bytes	Valid Range of Values	Other Comments
1	Record Indicator	Regular Market Order	Alphabetic	2	'PO' 'RM'	'PO' = Pre-Open 'RM' = Regular Market Order
2	Segment	Segment	Alphabetic	4	'FAOb'	Equity Derivatives
3	Order Number	Order Number	Numeric	16		
4	Transaction Time (Jiffies)	Time when transaction occurred	Numeric	14		65536 Jiffies=1sec. Jiffies are counted from 1 Jan 1980 midnight
5	Buy / Sell Indicator	Order Type	Alphabetic	1	'B','S'	'B' = Buy 'S' = Sell
6	Activity Type	Transaction Type	Numeric	1	1, 3, 4	1 - Order Entry 3 - Order Cancel 4 - Order Mod
7	Symbol	Underlying Symbol	Alphabetic	10		The values in this field will be padded with leading b 's when < 10 chars. E.g. Symbol ABC will be "bbbbbbbABC"
8	Instrument	Derivative Instrument Type	Alphabetic	6	'FUTIDX' 'OPTIDX' 'FUTSTK' 'OPTSTK'	'FUTIDX' = Index Futures 'OPTIDX' = Index Options 'FUTSTK' = Stock Futures 'OPTSTK' = Stock Options

9	Expiry Date	Expiry Date of Derivative Contract	Alphanumeric	9		This field is of the format DDMMYYYY e.g. "28JUN2012"
10	Strike Price	Strike Price of Underlying for Option contract	Numeric	8	Non-Negative	The value in this field will be in paise wherein the right most 2 digits will indicate values after decimal point. It will be 0 for Future Contracts and will be padded with leading zeros when < 8 places. E.g. 101.50 will be "00010150"
11	Option Type	Option Type of Derivative Contract	Alphabetic	2	'CA' 'PA' 'CE' 'PE' 'FF'	'CA' = Call American 'PA' = Put American 'CE' = Call European 'PE' = Put European 'FF' = Futures Contract
12	Buy/ Sell Order Quantity	Order Quantity (In Lots)	Numeric	8	Non-Zero, Non-Negative	The value in this field will be padded with leading zeros when < 8 places. Represents number of Contracts. E.g. 1234 will be "00001234"
13	Buy/ Sell Price	Order Price	Numeric	8	Non-Negative	The value in this field will be in paise wherein the right most 2 digits will indicate values after decimal point. For spread orders, it is the spread value between 2 contracts' LTP and can therefore be 0. It will be padded with leading zeros when < 8 places. E.g. 123.45 will be "00012345".

14	Spread / Combination Type	Spread/ Combinational Order Indicator	Alphabetic	1	'S', '2', '3', '*'	'S' = Spread Order '2' = 2 Leg Order '3' = 3 Leg Order '*' = Non-Spread Order
15	Spread Price Indicator	Flag to indicate positive/negative limit price	Alphabetic	1	'Y', 'N'	'N' = Negative 'Y' = Positive
Total Length				91		

2.1.4 Futures & Options (FAO)/ Equity Derivatives Trade Data

Message Layout						
Name		Equity Derivatives Market Trade Data (Trim)				
Frequency		All trade ticks				
Record length		Fixed				
Record Delimiter		LF				
File Availability		EOD				
Field No.	Field Name	Field Description	Type	Length No. of Bytes	Valid Range of Values	Other Comments
1	Record Indicator	Pre-Open or Regular Market Trade	Alphabetic	2	'PO' 'RM'	'PO' = Pre-Open 'RM' = Regular Market Trade
2	Segment	Segment	Alphabetic	4	'FAOb'	Equity Derivatives
3	Trade Time (Jiffies)	Time when transaction occurred	Numeric	14		65536 Jiffies = 1sec. Jiffies are counted from 1 Jan 1980 midnight
4	Symbol	Underlying Symbol	Alphabetic	10		The values in this field will be padded with leading b 's when < 10 chars. E.g. Symbol ABC will be "bbbbbbABC"
5	Instrument	Derivative Instrument Type	Alphabetic	6	'FUTIDX' 'OPTIDX' 'FUTSTK' 'OPTSTK'	'FUTIDX' = Index Futures 'OPTIDX' = Index Options 'FUTSTK' = Stock Futures 'OPTSTK' = Stock Options
6	Expiry Date	Expiry Date of Derivative Contract	Numeric	9		This field is of the format DDMMYYYY e.g. "28JUN2012"
7	Strike Price	Strike Price of Option contract	Numeric	8	Non-Negative	The value in this field will be in paise wherein the right most 2 digits will indicate values after decimal point. It will be 0 for Future Contracts and will be padded with leading zeros when < 8 places. E.g. 101.50 will be "00010150"

8	Option Type	Option Type of Derivative Contract	Alphabetic	2	'CA' 'PA' 'CE' 'PE' 'FF'	'CA' = Call American 'PA' = Put American 'CE' = Call European 'PE' = Put European 'FF' = Futures Contract
9	Trade Price	Transaction Price	Numeric	8	Non-Zero, Non-Negative	The value in this field will be in paise wherein the right most 2 digits will indicate values after decimal point. The value in this field will be padded with leading zeros when < 8 places. E.g. 123.45 will be "00012345"
10	Trade Quantity	Transaction Quantity (In Lots)	Numeric	8	Non-Zero, Non-Negative	The value in this field will be padded with leading zeros when < 8 places, Represents number of Contracts. E.g. 1234 will be "00001234"
11	Buy Order Number	Buy Order Number of Transaction	Numeric	16		
12	Sell Order Number	Sell Order Number of Transaction	Numeric	16		
Total Length				103		

NOTE: To reduce the download time of the single file, the existing single file of Order and Trade files have been split into multiple files, and their nomenclature are given below:

Orders Files:	Trade Files:
1.FAO_Orders_T_DDMMYYYY_01.DAT.gz 2. FAO_Orders_T_DDMMYYYY_02.DAT.gz . . 11. FAO_Orders_T_DDMMYYYY_11.DAT.gz . . N. FAO_Orders_T_DDMMYYYY_nn.DAT.gz n* ---Number of streams in sequential order	1. FAO_Trades_T_DDMMYYYY_01.DAT.gz 2. FAO_Trades_DDMMYYYY_02.DAT.gz . . 11. FAO_Trades_T_DDMMYYYY_11.DAT.gz . . N. FAO_Trades_T_DDMMYYYY_nn.DAT.gz n* ---Number of streams in sequential order

Note: The number of streams will increase sequentially over time.

Please note that none of the contracts will be overlapping in the any of the files. The file size of each file will be different.

2.1.5 Currency Derivatives Order Data

Message Layout						
Name		Currency Derivatives Market Orders Data (Trim)				
Frequency		All order ticks				
Record length		Fixed				
Record Delimiter		LF				
File Availability		EOD				
Field No.	Field Name	Field Description	Type	Length No. of Bytes	Valid Range of Values	Other Comments
1	Record Indicator	Regular Market Order	Alphabetic	2	'RM'	Regular Market Order
2	Segment	Segment	Alphabetic	4	'CDSb'	Currency Derivatives
3	Order Number	Order Number	Numeric	16		
4	Transaction Time (Jiffies)	Time when transaction occurred	Numeric	14		65536 Jiffies = 1sec. Jiffies are counted from 1 Jan 1980 midnight
5	Buy / Sell Indicator	Order Type	Alphabetic	1	'B','S'	'B' = Buy 'S' = Sell
6	Activity Type	Transaction Type	Numeric	1	1, 3, 4	1 - Order Entry 3 - Order Cancel 4 - Order Mod
7	Symbol	Underlying Symbol	Alphabetic	10		The values in this field will be padded with leading b 's when < 10 chars. E.g. Symbol ABC will be "bbbbbbABC"
8	Instrument	Derivative Instrument Type	Alphabetic	6	'FUTCUR' 'OPTCUR'	'FUTCUR' = Currency Futures 'OPTCUR' = Currency Options
9	Expiry Date	Expiry Date of Derivative Contract	Alphanumeric	9		This field is of the format DDMMYYYY e.g. "28JUN2012"
10	Strike Price	Strike Price of Option contract	Numeric	8	Non-Negative	The value in this field will be in paise wherein the right most 4 digits will indicate values after decimal point. It will be 0 for Future Contracts and will be padded with leading zeros when < 8 places. E.g. 12.3456 will be "00123456"

11	Option Type	Option Type of Derivative Contract	Alphabetic	2	'CA' 'PA' 'CE' 'PE' 'FF'	'CA' = Call American 'PA' = Put American 'CE' = Call European 'PE' = Put European 'FF' = Futures Contract
12	Buy/ Sell Order Quantity	Order Quantity (In Lots)	Numeric	8	Non-Zero, Non-Negative	The value in this field be padded with leading zeros when < 8 places. Represents number of Contracts. E.g. 1234 will be "00001234"
13	Buy/ Sell Price	Order Price	Numeric	8	Non-Negative	The value in this field will be in paise wherein the right most 4 digits will indicate values after decimal point. For spread orders, it is the spread value between 2 contracts' LTP and can therefore be 0. It will be padded with leading zeros when < 8 places. E.g. 12.3456 will be "00123456".
14	Spread / Comb Type	Spread/ Combinational Order Indicator	Alphabetic	1	'S', '2', '3', '*'	'S' = Spread Order '2' = 2 Leg Order '3' = 3 Leg Order '*' = Non-Spread Order
15	Spread Price Indicator	Flag to indicate positive and negative limit price	Alphabetic	1	'Y', 'N'	'N' = Negative 'Y' = Positive
Total Length				91		

2.1.6 Currency Derivatives Trade Data

Message Layout						
Name		Currency Derivatives Market Trade Data (Research Data) (Trim)				
Frequency		All trade ticks				
Record length		Fixed				
Record Delimiter		LF				
File Availability		EOD				
Field No.	Field Name	Field Description	Type	Length No. of Bytes	Valid Range of Values	Other Comments
1	Record Indicator	Regular Market Trade	Alphabetic	2	'RM'	Regular Market Trade
2	Segment	Segment	Alphabetic	4	'CDSb'	Currency Derivatives
3	Trade Time (Jiffies)	Time when transaction occurred	Numeric	14		65536 Jiffies = 1sec. Jiffies are counted from 1 Jan 1980 midnight
4	Symbol	Underlying Symbol	Alphabetic	10		The values in this field will be padded with leading b 's when < 10 chars. E.g. Symbol ABC will be "bbbbbbbABC"
5	Instrument	Derivative Instrument Type	Alphabetic	6	'FUTCUR' 'OPTCUR'	'FUTCUR' = Currency Futures 'OPTCUR' = Currency Options
6	Expiry Date	Expiry Date of Derivative Contract	Alphanumeric	9		This field is of the format DDMMYYYY e.g. "28JUN2012"
7	Strike Price	Strike Price of Option contract	Numeric	8	Non-Negative	The value in this field will be in paise wherein the right most 4 digits will indicate values after decimal point. It will be 0 for Future Contracts and will be padded with leading zeros when < 8 places. E.g. 12.3456 will be "00123456"

8	Option Type	Option Type of Derivative Contract	Alphabetic	2	'CA' 'PA' 'CE' 'PE' 'FF'	'CA' = Call American 'PA' = Put American 'CE' = Call European 'PE' = Put European 'FF' = Futures Contract
9	Trade Price	Transaction Price	Numeric	8	Non-Zero, Non-Negative	The value in this field will be in paise wherein the right most 4 digits will indicate values after decimal point. The value in this field will be padded with leading zeros when < 8 places. E.g. 12.3456 will be "00123456"
10	Trade Quantity	Transaction Quantity (In Lots)	Numeric	8	Non-Zero, Non-Negative	The value in this field will be padded with leading zeros when < 8 places, Represents number of Contracts. E.g. 1234 will be "00001234"
11	Buy Order Number	Buy Order Number of Transaction	Numeric	16		
12	Sell Order Number	Sell Order Number of Transaction	Numeric	16		
Total Length				103		

2.1.7 Commodity Derivatives Order Data

Message Layout						
Name		Commodity Derivatives Market Orders Data (Research Data) (Trim)				
Frequency		All order ticks				
Record length		Fixed				
Record Delimiter		LF				
File Availability		EOD				
Field No.	Field Name	Field Description	Type	Length (No. of Bytes)	Valid Range of Values	Other Comments
1	Record Indicator	Regular Market Order	Alphabetic	2	'RM'	Regular Market Order
2	Segment	Segment	Alphabetic	4	'COMb'	Commodity Derivatives
3	Order Number	Order Number	Numeric	16		
4	Transaction Time (Jiffies)	Time when transaction occurred	Numeric	14		65536 Jiffies = 1sec. Jiffies are counted from 1 Jan 1980 midnight
5	Buy / Sell Indicator	Order Type	Alphabetic	1	'B','S'	'B' = Buy 'S' = Sell
6	Activity Type	Transaction Type	Numeric	1	1, 3, 4	1 - Order Entry 3 - Order Cancel 4 - Order Mod
7	Symbol	Underlying Symbol	Alphabetic	10		The values in this field will be padded with leading b's when < 10 chars. E.g. Symbol ABC will be "bbbbbbbABC"
8	Instrument	Instrument Type	Alphabetic	6	'FUTBLN' 'FUTENR' 'FUTAGR' 'FUTBAS' 'OPTBLN' 'OPTBAS'	'FUTBLN' = Future Bullion 'FUTENR' = Future Energy 'FUTAGR' = Future Agri 'FUTBAS' = Future Base Metal 'OPTBLN' = Options Base Metal 'OPTBAS' = Options Bullion
9	Expiry Date	Expiry Date of a Contract	Alphanumeric	9		This field is of the format DDMMYYYY e.g. "05Dec2018"

10	Strike Price	Strike Price of Option contract	Numeric	10	Non-Negative	The value in this field will be in paise wherein the right most 2 digits will indicate values after decimal point. It will be 0 for Future Contracts and will be padded with leading zeros when < 10 places. E.g. 12.34 will be "0000001234"
11	Option Type	Option Type of Derivative Contract	Alphabetic	2	'CA' 'PA' 'CE' 'PE' 'FF'	'CA' = Call American 'PA' = Put American 'CE' = Call European 'PE' = Put European 'FF' = Futures Contract
12	Buy/ Sell Order Quantity	Order Quantity (In Lots)	Numeric	8	Non-Zero, Non-Negative	The value in this field will be padded with leading zeros when < 8 places. Represents number of Contracts. E.g. 1234 will be "00001234"
13	Buy/ Sell Price	Order Price	Numeric	10	Non-Negative	The value in this field will be in paise wherein the right most 2 digits will indicate values after decimal point. For spread orders, it is the spread value between 2 contracts' LTP and can therefore be 0. It will be padded with leading zeros when < 10 places. E.g. 12.34 will be "0000001234"
14	Spread / Comb Type	Spread/Combination Order Indicator	Alphabetic	1	'S', '2', '3', '*'	'S' = Spread Order '2' = 2 Leg Order '3' = 3 Leg Order '*' = Non-Spread Order
Total Length				94		

2.1.8 Commodity Derivatives Trade Data

Message Layout						
Name		Commodity Derivatives Trades Data (Trim)				
Frequency		All trade ticks				
Record length		Fixed				
Record Delimiter		LF				
File Availability		EOD				
Field No.	Field Name	Field Description	Type	Length (No. of Bytes)	Valid Range of Values	Other Comments
1	Record Indicator	Regular Market Trade	Alphabetic	2	'RM'	Regular Market Trade
2	Segment	Segment	Alphabetic	4	'COMb'	Commodity Derivatives
3	Trade Time (Jiffies)	Time when transaction occurred	Numeric	14		65536 Jiffies = 1sec. Jiffies are counted from 1 Jan 1980 midnight
4	Symbol	Underlying Symbol	Alphabetic	10		The values in this field will be padded with leading b 's when < 10 chars. E.g. Symbol ABC will be "bbbbbbbABC"
5	Instrument	Derivative Instrument Type	Alphabetic	6	'FUTBLN' 'FUTENR' 'FUTAGR' 'FUTBAS' 'OPTBLN' 'OPTBAS'	'FUTBLN' = Future Bullion 'FUTENR' = Future Energy 'FUTAGR' = Future Agri 'FUTBAS' = Future Base Metal 'OPTBLN' = Options Bullion 'OPTBAS' = Options Base Metal
6	Expiry Date	Expiry Date of Derivative Contract	Alphanumeric	9		This field is of the format DDMMYYYY e.g. "05Dec2018"

7	Strike Price	Strike Price of Option contract	Numeric	10	Non-Negative	The value in this field will be in paise wherein the right most 2 digits will indicate values after decimal point. It will be 0 for Future Contracts and will be padded with leading zeros when < 10 places. E.g. 12.34 will be "0000001234"
8	Option Type	Option Type of Derivative Contract	Alphabetic	2	'CA' 'PA' 'CE' 'PE' 'FF'	'CA' = Call American 'PA' = Put American 'CE' = Call European 'PE' = Put European 'FF' = Futures Contract
9	Trade Price	Transaction Price	Numeric	10	Non-Zero, Non-Negative	The value in this field will be in paise wherein the right most 2 digits will indicate values after decimal point. The value in this field will be padded with leading zeros when < 10 places. E.g. 12.34 will be "0000001234"
10	Trade Quantity	Transaction Quantity (In Lots)	Numeric	8	Non-Zero, Non-Negative	The value in this field will be padded with leading zeros when < 8 places, Represents number of Contracts. E.g. 1234 will be "00001234"
11	Buy Order Number	Buy Order Number of Transaction	Numeric	16		
12	Sell Order Number	Sell Order Number of Transaction	Numeric	16		
Total Length				107		

2.1.9 Trigger file details for trim version

To verify the downloaded files at client's end, trigger files have been added for each Order and Trade file for all segments. Please find following layout and segment wise trigger file distribution.

Message Layout (Trim)			
Frequency	For every file		
Field No.	Field Name	Field Description	Other Comments
1	MD5 sum	To verify data integrity using MD5 algorithm	MD5SUM= 32 Alphanumeric characters Global filename: SEG_FileType_T_DDMMYYYY.DAT.gz.trg Example: FAO_Trades_T_20112020_02.DAT.gz.trg Tigger content: a50a1646ae6dc59c66d3be3e15b9e1cf FAO_Trades_T_20112020_02.DAT.gz
2	Size of the file in bytes	To verify size of file in bytes.	Global filename: SEG_FileType_T_DDMMYYYY.DAT.gz.trg Example: FAO_Orders_T_20112020_02.DAT.gz.trg Tigger content: 10172205 sizes in bytes for file FAO_Orders_T_20112020_02.DAT.gz

Segment Wise Trigger File Distribution:

Segment	File name	Trigger file name
CM	CASH_Orders_T_DDMMYYYY_nn.DAT.gz	CASH_Orders_T_DDMMYYYY_nn.DAT.gz.trg
	CASH_Trades_T_DDMMYYYY_nn.DAT.gz	CASH_Trades_T_DDMMYYYY_nn.DAT.gz.trg
FAO	FAO_Orders_T_DDMMYYYY_nn.DAT.gz	FAO_Orders_T_DDMMYYYY_nn.DAT.gz.trg
	FAO_Trades_T_DDMMYYYY_nn.DAT.gz	FAO_Trades_T_DDMMYYYY_nn.DAT.gz.trg
CD	CDS_Orders_T_DDMMYYYY.DAT.gz	CDS_Orders_T_DDMMYYYY.DAT.gz.trg
	CDS_Trades_T_DDMMYYYY.DAT.gz	CDS_Trades_T_DDMMYYYY.DAT.gz.trg
COM	COM_Trades_T_DDMMYYYY.DAT.gz	COM_Trades_T_DDMMYYYY.DAT.gz.trg
	COM_Orders_T_DDMMYYYY.DAT.gz	COM_Orders_T_DDMMYYYY.DAT.gz.trg

3. Full version of Orders & Trades

3.1 Full version of Orders & Trades

The Full version of Orders and Trades messages provides a comprehensive and complete representation of all order-book events and executed trades captured by the National Stock Exchange of India Ltd. (NSEIL) during the trading day. This dataset includes the entire set of available fields as defined in the respective message layouts for each market segment, encompassing order attributes, pricing details, volumes, timestamps and identifiers.

Full version datasets are made available after a defined cooling-off period as:

- Full Orders Data is made available after 90 calendar days from the respective trade date.
- Full Trades Data is made available after 30 calendar days from the respective trade date.

All records in the Full version are published in fixed-length file formats, with standardized field definitions, consistent sequencing, and jiffy-based timestamps, ensuring deterministic parsing and accurate historical reconstruction.

3.1.1 Cash Market/ Equity Orders Data

Message Layout						
Name		Cash Market/ Equity Orders Data (Full)				
Frequency		All order ticks				
Record length		Fixed				
Record Delimiter		LF				
File Availability		After 90 Days				
Field No.	Field Name	Field Description	Type	Length (No. of Bytes)	Valid Range of Values	Other Comments
1	Record Indicator	Pre-Open or Regular Market	Alphabetic	2	'PO', 'RM', 'CA'	'PO'=Pre-Open 'RM'=Regular Market 'CA' = Closing Auction
2	Segment	Segment	Alphabetic	4	'CASH'	
3	Order Number	Order Number	Numeric	16		
4	Transaction Time (Jiffies)	Time when transaction occurred	Numeric	14		65536 Jiffies = 1sec Jiffies are counted from 1 Jan 1980 midnight
5	Buy / Sell Indicator	Order Type	Alphabetic	1	'B', 'S'	'B' = Buy 'S' = Sell
6	Activity Type	Transaction Type	Numeric	1	1,3,4	1 - Order Entry 3 - Order Cancel 4 - Order Mod
7	Symbol	Security Symbol	Alphabetic	10		The values in this field will be padded with leading b's when < 10 chars. E.g. Symbol ABC will be "bbbbbbbABC"
8	Series	Series	Alphanumeric	2		Different series such as EQ, BE, BL, DR etc.
9	Volume Disclosed	Disclosed Quantity	Numeric	10	Non-Negative	The value in this field is 0 for non-DQ orders and it will be padded with leading zeros when < 10 places. E.g. 1234 will be "0000001234"

10	Volume Original	Order Quantity	Numeric	10	Non-Zero, Non-Negative	The value in this field be padded with leading zeros when < 10 places. E.g. 1234 will be "0000001234"
11	Limit Price	Order Price	Numeric	8	Non-Zero, Non-Negative	The value in this field will be in paise wherein the right most 2 digits will indicate values after decimal point. The value in this field will be padded with leading zeros when < 8 places. E.g. 123.45 will be "00012345"
12	Trigger Price	Price at which Stop Loss order is to be triggered	Numeric	8	Non-Zero, Non-Negative	The value in this field will be in paise wherein the right most 2 digits will indicate values after decimal point. The value in this field is 0 for Non-Stop Loss orders. The value in this field will be padded with leading zeros when < 8 places. E.g. 123.45 will be "00012345"
13	Market Order Flag	Market/ Limit Order Indicator	Alphabetic	1	'Y','N'	'Y' = Market Order 'N' = Limit Order
14	Stop Loss Flag	Stop Loss Indicator	Alphabetic	1	'Y','N'	'Y' = Stop Loss Order 'N' = Regular Lot Order
15	IO Flag	IOC Indicator	Alphabetic	1	'Y','N'	'Y' = Immediate or Cancel 'N' = Non IOC
16	Algo Indicator	Flag indicating source of Terminal generating Order	Numeric	1	0 1 2 3	0 - Algo 1 - Non-Algo 2 - Algo through SOR 3 - Non-Algo through SOR

17	Client Identity Flag	Flag indicating beneficiary	Numeric	1	1,2,3	1 - Custodian 2 - Proprietary 3 - Client
Total Length				91		



3.1.2 Cash Market/ Equity Trade Data

Message Layout						
Name		Cash Market/ Equity Trade Data (Full)				
Frequency		All trade ticks				
Record length		Fixed				
Record Delimiter		LF				
File Availability		After 30 Days				
Field No.	Field Name	Field Description	Type	Length (No. of Bytes)	Valid Range of Values	Other Comments
1	Record Indicator	Pre-Open or Regular Market	Alphabetic	2	'PO', 'RM', 'CA'	'PO'=Pre-Open 'RM' = Regular Market 'CA' = Closing Auction
2	Segment	Segment	Alphabetic	4	'CASH'	
3	Trade Number	Transaction Number	Numeric	17		
4	Trade Time (Jiffies)	Time when transaction occurred	Numeric	14		65536 Jiffies = 1sec. Jiffies are counted from 1 Jan 1980 midnight
5	Symbol	Security Symbol	Alphabetic	10		The values in this field will be padded with leading b 's when < 10 chars. E.g. Symbol ABC will be "bbbbbbbABC"
6	Series	Series	Alphanumeric	2		Different series such as EQ, BE, BL, DR etc.
7	Trade Price	Transaction Price	Numeric	8	Non-Zero, Non-Negative	The value in this field will be in paise wherein the right most 2 digits will indicate values after decimal point. The value in this field will be padded with leading zeros when < 8 places. E.g. 123.45 will be "00012345"
8	Trade Quantity	Transaction Quantity	Numeric	10	Non-Zero, Non-Negative	The value in this field will be padded with leading zeros when < 10 places. E.g. 1234 will be "0000001234"

9	Buy Order Number	Buy Order Number of Transaction	Numeric	16		
10	Buy Algo Indicator	Flag indicating source of Buy Terminal	Numeric	1	0, 1, 2, 3	0 - Algo 1 - Non-Algo 2 - Algo through SOR 3 - Non-Algo through SOR
11	Buy Client Identity Flag	Flag indicating Buy Side beneficiary	Numeric	1	1,2,3	1 - Custodian 2 - Proprietary 3 - Client
12	Sell Order Number	Sell Order Number of Transaction	Numeric	16		
13	Sell Algo Indicator	Flag indicating source of Sell Terminal	Numeric	1	0, 1, 2, 3	0 - Algo 1 - Non-Algo 2 - Algo through SOR 3 - Non-Algo through SOR
14	Sell Client Identity Flag	Flag indicating Sell Side beneficiary	Numeric	1	1,2,3	1 - Custodian 2 - Proprietary 3 - Client
Total Length				103		

NOTE: To reduce the download time of the single file, the existing single file of Order and Trade files have been split into multiple files, and their nomenclature are given below:

Orders Files	Trade Files
1. CM_Orders_DDMMYYYY_01.DAT.gz 2. CM_Orders_DDMMYYYY_02.DAT.gz . . N. CM_Orders_DDMMYYYY_NN.DAT.gz N* ---Number of streams in sequential order	1. CM_Trades_DDMMYYYY_01.DAT.gz 2. CM_Trades_DDMMYYYY_02.DAT.gz . . N. CM_Trades_DDMMYYYY_NN.DAT.gz N* ---Number of streams in sequential order

Note: Number of streams may increase in the future.

3.1.3 Futures & Options (FAO)/ Equity Derivatives Order Data

Message Layout						
Name		Futures & Options/ Equity Derivatives Market Orders Data (Full)				
Frequency		All order ticks				
Record length		Fixed				
Record Delimiter		LF				
File Availability		After 90 Days				
Field No.	Field Name	Field Description	Type	Length No. of Bytes	Valid Range of Values	Other Comments
1	Record Indicator	Pre-Open or Regular Market Order	Alphabetic	2	'PO' 'RM'	'PO' = Pre-Open 'RM' = Regular Market Order
2	Segment	Segment	Alphabetic	4	'FAOb'	Equity Derivatives
3	Order Number	Order Number	Numeric	16		
4	Transaction Time (Jiffies)	Time when transaction occurred	Numeric	14		65536 Jiffies=1sec. Jiffies are counted from 1 Jan 1980 midnight
5	Buy / Sell Indicator	Order Type	Alphabetic	1	'B','S'	'B' = Buy 'S' = Sell
6	Activity Type	Transaction Type	Numeric	1	1, 3, 4	1 - Order Entry 3 - Order Cancel 4 - Order Mod
7	Symbol	Underlying Symbol	Alphabetic	10		The values in this field will be padded with leading b 's when < 10 chars. E.g. Symbol ABC will be "bbbbbbbABC"
8	Instrument	Derivative Instrument Type	Alphabetic	6	'FUTIDX' 'OPTIDX' 'FUTSTK' 'OPTSTK'	'FUTIDX' = Index Futures 'OPTIDX' = Index Options 'FUTSTK' = Stock Futures 'OPTSTK' = Stock Options

9	Expiry Date	Expiry Date of Derivative Contract	Alphanumeric	9		This field is of the format DDMMYYYY e.g. "28JUN2012"
10	Strike Price	Strike Price of Underlying for Option contract	Numeric	8	Non-Negative	The value in this field will be in paise wherein the right most 2 digits will indicate values after decimal point. It will be 0 for Future Contracts and will be padded with leading zeros when < 8 places. E.g. 101.50 will be "00010150"
11	Option Type	Option Type of Derivative Contract	Alphabetic	2	'CA' 'PA' 'CE' 'PE' 'FF'	'CA' = Call American 'PA' = Put American 'CE' = Call European 'PE' = Put European 'FF' = Futures Contract
12	Volume Disclosed	Disclosed Quantity (In Lots)	Numeric	8	Non-Negative	The value in this field is 0 for Non-DQ orders and it will be padded with leading zeros when < 8 places. Represents number of Contracts. E.g. 1234 will be "00001234"
13	Volume Original	Order Quantity (In Lots)	Numeric	8	Non-Zero, Non-Negative	The value in this field will be padded with leading zeros when < 8 places. Represents number of Contracts. E.g. 1234 will be "00001234"

14	Limit Price	Order Price	Numeric	8	Non-Negative	The value in this field will be in paise wherein the right most 2 digits will indicate values after decimal point. For spread orders, it is the spread value between 2 contracts' LTP and can therefore be 0. It will be padded with leading zeros when < 8 places. E.g. 123.45 will be "00012345".
15	Trigger Price	Price at which Stop Loss order is to be triggered	Numeric	8	Non-Zero, Non-Negative	The value in this field will be in paise wherein the right most 2 digits will indicate values after decimal point. The value in this field is 0 for Non-Stop Loss orders. The value in this field will be padded with leading zeros when < 8 places. E.g. 123.45 will be "00012345"
16	MKT Flag	Market/Limit Order Indicator	Alphabetic	1	'Y','N'	'Y' = Market Order 'N' = Limit Order
17	On Stop Flag	Stop Loss Indicator	Alphabetic	1	'Y','N'	'Y' = Stop Loss Order 'N' = Regular Lot Order
18	IO Flag	IOC Indicator	Alphabetic	1	'Y','N'	'Y' = Immediate or Cancel 'N' = Non IOC
19	Spread / Combination Type	Spread/ Combinational Order Indicator	Alphabetic	1	'S', '2', '3', '*'	'S' = Spread Order '2' = 2 Leg Order '3' = 3 Leg Order '*' = Non-Spread Order

20	Algo Indicator	Flag indicating source of Terminal generating Order	Numeric	1	0, 1, 2, 3	0 - Algo 1 - Non-Algo 2 - Algo through SOR 3 - Non-Algo through SOR
21	Client Identity Flag	Flag indicating beneficiary	Numeric	1	1,2,3	1 - Custodian 2 - Proprietary 3 - Client
22	Limit Price Indicator	Flag to indicate positive/negative limit price	Alphabetic	1	'Y', 'N'	'N' = Negative 'Y' = Positive
Total Length				112		

3.1.4 Futures & Options (FAO)/ Equity Derivatives Trade Data

Message Layout						
Name		Equity Derivatives Market Trade Data (Full)				
Frequency		All trade ticks				
Record length		Fixed				
Record Delimiter		LF				
File Availability		After 30 Days				
Field No.	Field Name	Field Description	Type	Length No. of Bytes	Valid Range of Values	Other Comments
1	Record Indicator	Pre-Open or Regular Market Trade	Alphabetic	2	'PO' 'RM'	'PO' = Pre-Open 'RM' = Regular Market Trade
2	Segment	Segment	Alphabetic	4	'FAOb'	Equity Derivatives
3	Trade Number	Transaction Number	Numeric	17		
4	Trade Time (Jiffies)	Time when transaction occurred	Numeric	14		65536 Jiffies = 1sec. Jiffies are counted from 1 Jan 1980 midnight
5	Symbol	Underlying Symbol	Alphabetic	10		The values in this field will be padded with leading b 's when < 10 chars. E.g. Symbol ABC will be "bbbbbbbABC"
6	Instrument	Derivative Instrument Type	Alphabetic	6	'FUTIDX' 'OPTIDX' 'FUTSTK' 'OPTSTK'	'FUTIDX' = Index Futures 'OPTIDX' = Index Options 'FUTSTK' = Stock Futures 'OPTSTK' = Stock Options
7	Expiry Date	Expiry Date of Derivative Contract	Numeric	9		This field is of the format DDMMYYYYY e.g. "28JUN2012"

8	Strike Price	Strike Price of Option contract	Numeric	8	Non-Negative	The value in this field will be in paise wherein the right most 2 digits will indicate values after decimal point. It will be 0 for Future Contracts and will be padded with leading zeros when < 8 places. E.g. 101.50 will be "00010150"
9	Option Type	Option Type of Derivative Contract	Alphabetic	2	'CA' 'PA' 'CE' 'PE' 'FF'	'CA' = Call American 'PA' = Put American 'CE' = Call European 'PE' = Put European 'FF' = Futures Contract
10	Trade Price	Transaction Price	Numeric	8	Non-Zero, Non-Negative	The value in this field will be in paise wherein the right most 2 digits will indicate values after decimal point. The value in this field will be padded with leading zeros when < 8 places. E.g. 123.45 will be "00012345"
11	Trade Quantity	Transaction Quantity (In Lots)	Numeric	8	Non-Zero, Non-Negative	The value in this field will be padded with leading zeros when < 8 places, Represents number of Contracts. E.g. 1234 will be "00001234"
12	Buy Order Number	Buy Order Number of Transaction	Numeric	16		
13	Buy Algo Indicator	Flag indicating source of Buy Terminal	Numeric	1	0, 1, 2, 3	0 - Algo 1 - Non-Algo 2 - Algo through SOR 3 - Non-Algo through SOR
14	Buy Client Identity Flag	Flag indicating Buy Side beneficiary	Numeric	1	1,2,3	1 - Custodian 2 - Proprietary 3 - Client
15	Sell Order Number	Sell Order Number of Transaction	Numeric	16		

16	Sell Algo Indicator	Flag indicating source of Sell Terminal	Numeric	1	0, 1, 2, 3	0 - Algo 1 - Non-Algo 2 - Algo through SOR 3 - Non-Algo through SOR
17	Sell Client Identity Flag	Flag indicating Sell Side beneficiary	Numeric	1	1,2,3	1 - Custodian 2 - Proprietary 3 - Client
Total Length				124		

NOTE: To reduce the download time of the single file, the existing single file of Order and Trade files have been split into multiple files, and their nomenclature are given below:

Orders Files	Trade Files
1.FAO_Orders_DDMMYYYY_01.DAT.gz	1. FAO_Trades_DDMMYYYY_01.DAT.gz
2. FAO_Orders_DDMMYYYY_02.DAT.gz	2. FAO_Trades_DDMMYYYY_02.DAT.gz
.	.
11. FAO_Orders_DDMMYYYY_11.DAT.gz	11. FAO_Trades_DDMMYYYY_11.DAT.gz
.	.
N. FAO_Orders_DDMMYYYY_nn.DAT.gz	N. FAO_Trades_DDMMYYYY_nn.DAT.gz
n* ---Number of streams in sequential order	n* ---Number of streams in sequential order

Note: The number of streams will increase sequentially over time.

Please note that none of the contracts will be overlapping in the any of the files. The file size of each file will be different.

3.1.5 Currency Derivatives Order Data

Message Layout						
Name	Currency Derivatives Market Orders Data (Full)					
Frequency	All order ticks					
Record length	Fixed					
Record Delimiter	LF					
File Availability	After 90 Days					
Field No.	Field Name	Field Description	Type	Length No. of Bytes	Valid Range of Values	Other Comments
1	Record Indicator	Regular Market Order	Alphabetic	2	'RM'	Regular Market Order
2	Segment	Segment	Alphabetic	4	'CDSb'	Currency Derivatives
3	Order Number	Order Number	Numeric	16		
4	Transaction Time (Jiffies)	Time when transaction occurred	Numeric	14		65536 Jiffies = 1sec. Jiffies are counted from 1 Jan 1980 midnight
5	Buy / Sell Indicator	Order Type	Alphabetic	1	'B','S'	'B' = Buy 'S' = Sell
6	Activity Type	Transaction Type	Numeric	1	1, 3, 4	1 - Order Entry 3 - Order Cancel 4 - Order Mod
7	Symbol	Underlying Symbol	Alphabetic	10		The values in this field will be padded with leading b 's when < 10 chars. E.g. Symbol ABC will be "bbbbbbbABC"
8	Instrument	Derivative Instrument Type	Alphabetic	6	'FUTCUR' 'OPTCUR'	'FUTCUR' = Currency Futures 'OPTCUR' = Currency Options
9	Expiry Date	Expiry Date of Derivative Contract	Alphanumeric	9		This field is of the format DDMMYYYY e.g. "28JUN2012"
10	Strike Price	Strike Price of Option contract	Numeric	8	Non-Negative	The value in this field will be in paise wherein the right most 4 digits will indicate values after decimal point. It will be 0 for Future Contracts and will be padded with leading zeros when < 8

						places. E.g. 12.3456 will be "00123456"
11	Option Type	Option Type of Derivative Contract	Alphabetic	2	'CA' 'PA' 'CE' 'PE' 'FF'	'CA' = Call American 'PA' = Put American 'CE' = Call European 'PE' = Put European 'FF' = Futures Contract
12	Volume Disclosed	Disclosed Quantity (In Lots)	Numeric	8	Non-Negative	The value in this field is 0 for Non-DQ orders and it will be padded with leading zeros when < 8 places. Represents number of Contracts. E.g. 1234 will be "00001234"
13	Volume Original	Order Quantity (In Lots)	Numeric	8	Non-Zero, Non-Negative	The value in this field be padded with leading zeros when < 8 places. Represents number of Contracts. E.g. 1234 will be "00001234"
14	Limit Price	Order Price	Numeric	8	Non-Negative	The value in this field will be in paise wherein the right most 4 digits will indicate values after decimal point. For spread orders, it is the spread value between 2 contracts' LTP and can therefore be 0. It will be padded with leading zeros when < 8 places. E.g. 12.3456 will be "00123456".
15	Trigger Price	Price at which Stop Loss order is to be triggered	Numeric	8	Non-Zero, Non-Negative	The value in this field will be in paise wherein the right most 4 digits will indicate values after decimal point. The value in this field is 0 for Non-Stop Loss orders. The value in this field will be padded with leading zeros when < 8 places. E.g. 12.3456 will be "00123456"

16	MKT Flag	Market/Limit Order Indicator	Alphabetic	1	'Y','N'	'Y' = Market Order 'N' = Limit Order
17	On Stop Flag	Stop Loss Indicator	Alphabetic	1	'Y','N'	'Y' = Stop Loss Order 'N' = Regular Lot Order
18	FOK Flag	FOK/IOC Indicator	Alphabetic	1	'Y','N'	'Y' = Fill Or Kill / Immediate Or Cancel 'N' = Non IOC
19	Spread / Comb Type	Spread/ Combinational Order Indicator	Alphabetic	1	'S', '2', '3', '*'	'S' = Spread Order '2' = 2 Leg Order '3' = 3 Leg Order '*' = Non-Spread Order
20	Algo Indicator	Flag indicating source of Terminal generating Order	Numeric	1	0, 1, 2, 3	0 - Algo 1 - Non-Algo 2 - Algo through SOR 3 - Non-Algo through SOR
21	Client Identity Flag	Flag indicating beneficiary	Numeric	1	1,2,3	1 - Custodian 2 - Proprietary 3 - Client
22	Limit Price Indicator	Flag to indicate positive and negative limit price	Alphabetic	1	'Y', 'N'	'N' = Negative 'Y' = Positive
Total Length				112		

3.1.6 Currency Derivatives Trade Data

Message Layout						
Name		Currency Derivatives Market Trades Data (Research Data) (Full)				
Frequency		All trade ticks				
Record length		Fixed				
Record Delimiter		LF				
File Availability		After 30 Days				
Field No.	Field Name	Field Description	Type	Length No. of Bytes	Valid Range of Values	Other Comments
1	Record Indicator	Regular Market Trade	Alphabetic	2	'RM'	Regular Market Trade
2	Segment	Segment	Alphabetic	4	'CDSb'	Currency Derivatives
3	Trade Number	Transaction Number	Numeric	16		
4	Trade Time (Jiffies)	Time when transaction occurred	Numeric	14		65536 Jiffies = 1sec. Jiffies are counted from 1 Jan 1980 midnight
5	Symbol	Underlying Symbol	Alphabetic	10		The values in this field will be padded with leading b 's when < 10 chars. E.g. Symbol ABC will be "bbbbbbbABC"
6	Instrument	Derivative Instrument Type	Alphabetic	6	'FUTCUR' 'OPTCUR'	'FUTCUR' = Currency Futures 'OPTCUR' = Currency Options
7	Expiry Date	Expiry Date of Derivative Contract	Alphanumeric	9		This field is of the format DDMMYYYY e.g. "28JUN2012"

8	Strike Price	Strike Price of Option contract	Numeric	8	Non-Negative	The value in this field will be in paise wherein the right most 4 digits will indicate values after decimal point. It will be 0 for Future Contracts and will be padded with leading zeros when < 8 places. E.g. 12.3456 will be "00123456"
9	Option Type	Option Type of Derivative Contract	Alphabetic	2	'CA' 'PA' 'CE' 'PE' 'FF'	'CA' = Call American 'PA' = Put American 'CE' = Call European 'PE' = Put European 'FF' = Futures Contract
10	Trade Price	Transaction Price	Numeric	8	Non-Zero, Non-Negative	The value in this field will be in paise wherein the right most 4 digits will indicate values after decimal point. The value in this field will be padded with leading zeros when < 8 places. E.g. 12.3456 will be "00123456"
11	Trade Quantity	Transaction Quantity (In Lots)	Numeric	8	Non-Zero, Non-Negative	The value in this field will be padded with leading zeros when < 8 places, Represents number of Contracts. E.g. 1234 will be "00001234"
12	Buy Order Number	Buy Order Number of Transaction	Numeric	16		
13	Buy Algo Indicator	Flag indicating source of Buy Terminal	Numeric	1	0, 1, 2, 3	0 - Algo 1 - Non-Algo 2 - Algo through SOR 3 - Non-Algo through SOR
14	Buy Client Identity Flag	Flag indicating Buy Side beneficiary	Numeric	1	1,2,3	1 - Custodian 2 - Proprietary 3 - Client
15	Sell Order Number	Sell Order Number of Transaction	Numeric	16		

16	Sell Algo Indicator	Flag indicating source of Sell Terminal	Numeric	1	0, 1, 2, 3	0 - Algo 1 - Non-Algo 2 - Algo through SOR 3 - Non-Algo through SOR
17	Sell Client Identity Flag	Flag indicating Sell Side beneficiary	Numeric	1	1,2,3	1 - Custodian 2 - Proprietary 3 - Client
Total Length				123		

3.1.7 Commodity Derivatives Order Data

Message Layout						
Name		Commodity Derivatives Market Orders Data (Research Data) (Full)				
Frequency		All order ticks				
Record length		Fixed				
Record Delimiter		LF				
File Availability		After 90 Days				
Field No.	Field Name	Field Description	Type	Length (No. of Bytes)	Valid Range of Values	Other Comments
1	Record Indicator	Regular Market Order	Alphabetic	2	'RM'	Regular Market Order
2	Segment	Segment	Alphabetic	4	'COMb'	Commodity Derivatives
3	Order Number	Order Number	Numeric	16		
4	Transaction Time (Jiffies)	Time when transaction occurred	Numeric	14		65536 Jiffies = 1sec. Jiffies are counted from 1 Jan 1980 midnight
5	Buy / Sell Indicator	Order Type	Alphabetic	1	'B','S'	'B' = Buy 'S' = Sell
6	Activity Type	Transaction Type	Numeric	1	1, 3, 4	1 - Order Entry 3 - Order Cancel 4 - Order Mod
7	Symbol	Underlying Symbol	Alphabetic	10		The values in this field will be padded with leading b's when < 10 chars. E.g. Symbol ABC will be "bbbbbbbABC"
8	Instrument	Instrument Type	Alphabetic	6	'FUTBLN' 'FUTENR' 'FUTAGR' 'FUTBAS' 'OPTBLN' 'OPTBAS'	'FUTBLN' = Future Bullion 'FUTENR' = Future Energy 'FUTAGR' = Future Agri 'FUTBAS' = Future Base Metal 'OPTBLN' = Options Base Metal 'OPTBAS' = Options Bullion
9	Expiry Date	Expiry Date of a Contract	Alphanumeric	9		This field is of the format DDMMYYYY e.g. "05Dec2018"

10	Strike Price	Strike Price of Option contract	Numeric	10	Non-Negative	The value in this field will be in paise wherein the right most 2 digits will indicate values after decimal point. It will be 0 for Future Contracts and will be padded with leading zeros when < 10 places. E.g. 12.34 will be "0000001234"
11	Option Type	Option Type of Derivative Contract	Alphabetic	2	'CA' 'PA' 'CE' 'PE' 'FF'	'CA' = Call American 'PA' = Put American 'CE' = Call European 'PE' = Put European 'FF' = Futures Contract
12	Volume Disclosed	Disclosed Quantity (In Lots)	Numeric	8	Non-Negative	The value in this field is 0 for Non-DQ orders and it will be padded with leading zeros when < 8 places. Represents number of Contracts. E.g. 1234 will be "00001234"
13	Volume Original	Order Quantity (In Lots)	Numeric	8	Non-Zero, Non-Negative	The value in this field be padded with leading zeros when < 8 places. Represents number of Contracts. E.g. 1234 will be "00001234"
14	Limit Price	Order Price	Numeric	10	Non-Negative	The value in this field will be in paise wherein the right most 2 digits will indicate values after decimal point. For spread orders, it is the spread value between 2 contracts' LTP and can therefore be 0. It will be padded with leading zeros when < 10 places. E.g. 12.34 will be "0000001234"

15	Trigger Price	Price at which Stop Loss order is to be triggered	Numeric	10	Non-Zero, Non-Negative	The value in this field will be in paise wherein the right most 2 digits will indicate values after decimal point. The value in this field is 0 for Non-Stop Loss orders. The value in this field will be padded with leading zeros when < 10 places. E.g. 12.34 will be "0000001234"
16	MKT Flag	Market/ Limit Order Indicator	Alphabetic	1	'Y','N'	'Y' = Market Order 'N' = Limit Order
17	On Stop Flag	Stop Loss Indicator	Alphabetic	1	'Y','N'	'Y' = Stop Loss Order 'N' = Regular Lot Order
18	FOK Flag	FOK/ IOC Indicator	Alphabetic	1	'Y','N'	'Y' = Fill or Kill / Immediate Or Cancel 'N' = Non IOC
19	Spread / Comb Type	Spread/Combina-tional Order Indicator	Alphabetic	1	'S', '2', '3', '*'	'S' = Spread Order '2' = 2 Leg Order '3' = 3 Leg Order '*' = Non-Spread Order
20	Algo Indicator	Flag indicating source of Terminal generating Order	Numeric	1	0, 1, 2, 3	0 - Algo 1 - Non-Algo 2 - Algo through SOR 3 - Non-Algo through SOR
21	Client Identity Flag	Flag indicating beneficiary	Numeric	1	1,2,3	1 - Custodian 2 - Proprietary 3 - Client
Total Length				117		

3.1.8 Commodity Derivatives Trade Data

Message Layout						
Name		Commodity Derivatives Trades Data (Full)				
Frequency		All trade ticks				
Record length		Fixed				
Record Delimiter		LF				
File Availability		After 30 Days				
Field No.	Field Name	Field Description	Type	Length (No. of Bytes)	Valid Range of Values	Other Comments
1	Record Indicator	Regular Market Trade	Alphabetic	2	'RM'	Regular Market Trade
2	Segment	Segment	Alphabetic	4	'COMb'	Commodity Derivatives
3	Trade Number	Transaction Number	Numeric	16		
4	Trade Time (Jiffies)	Time when transaction occurred	Numeric	14		65536 Jiffies = 1sec. Jiffies are counted from 1 Jan 1980 midnight
5	Symbol	Underlying Symbol	Alphabetic	10		The values in this field will be padded with leading b 's when < 10 chars. E.g. Symbol ABC will be "bbbbbbbABC"
6	Instrument	Derivative Instrument Type	Alphabetic	6	'FUTBLN' 'FUTENR' 'FUTAGR' 'FUTBAS' 'OPTBLN' 'OPTBAS'	'FUTBLN' = Future Bullion 'FUTENR' = Future Energy 'FUTAGR' = Future Agri 'FUTBAS' = Future Base Metal 'OPTBLN' = Options Bullion 'OPTBAS' = Options Base Metal
7	Expiry Date	Expiry Date of Derivative Contract	Alphanumeric	9		This field is of the format DDMMYYYY e.g. "05Dec2018"

8	Strike Price	Strike Price of Option contract	Numeric	10	Non-Negative	The value in this field will be in paise wherein the right most 2 digits will indicate values after decimal point. It will be 0 for Future Contracts and will be padded with leading zeros when < 10 places. E.g. 12.34 will be "0000001234"
9	Option Type	Option Type of Derivative Contract	Alphabetic	2	'CA' 'PA' 'CE' 'PE' 'FF'	'CA' = Call American 'PA' = Put American 'CE' = Call European 'PE' = Put European 'FF' = Futures Contract
10	Trade Price	Transaction Price	Numeric	10	Non-Zero, Non-Negative	The value in this field will be in paise wherein the right most 2 digits will indicate values after decimal point. The value in this field will be padded with leading zeros when < 10 places. E.g. 12.34 will be "0000001234"
11	Trade Quantity	Transaction Quantity (In Lots)	Numeric	8	Non-Zero, Non-Negative	The value in this field will be padded with leading zeros when < 8 places, Represents number of Contracts. E.g. 1234 will be "00001234"
12	Buy Order Number	Buy Order Number of Transaction	Numeric	16		
13	Buy Algo Indicator	Flag indicating source of Buy Terminal	Numeric	1	0, 1, 2, 3	0 - Algo 1 - Non-Algo 2 - Algo through SOR 3 - Non-Algo through SOR
14	Buy Client Identity Flag	Flag indicating Buy Side beneficiary	Numeric	1	1,2,3	1 - Custodian 2 - Proprietary 3 - Client

15	Sell Order Number	Sell Order Number of Transaction	Numeric	16		
16	Sell Algo Indicator	Flag indicating source of Sell Terminal	Numeric	1	0,1, 2, 3	0 - Algo 1 - Non-Algo 2 - Algo through SOR 3 - Non-Algo through SOR
17	Sell Client Identity Flag	Flag indicating Sell Side beneficiary	Numeric	1	1,2,3	1 - Custodian 2 - Proprietary 3 - Client
Total Length				127		



3.1.9 Index Data

Message Layout						
Name		Index Data				
Frequency		All ticks				
Record length		Fixed				
Record Delimiter		LF				
File Availability		EOD				
Field No.	Field Name	Field Description	Type	Length (No. of Bytes)	Valid Range of Values	Other Comments
1	Record Indicator	Record Indicator	Alphabetic	2	'IX'	
2	Segment	Segment	Alphabetic	4	'CASH'	
3	Date of Transaction	Date when Index was computed	Numeric	8		YYYYMMDD
4	Transaction Time	Time when transaction occurred	Alphanumeric	8		Transaction time is in HH:MM:SS format
5	Value of Nifty 50 Index	Value of Nifty 50 Index	Numeric	8		The value in this field will be in paise wherein the right most 2 digits will indicate values after decimal point. The value in this field will be padded with leading zeros when < 8 places. E.g. 5245.05 will be "00524505"
6	Value of Nifty Next 50	Value of Nifty Next 50 Index	Numeric	8		The value in this field will be in paise wherein the right most 2 digits will indicate values after decimal point. The value in this field will be padded with leading zeros when < 8 places. E.g. 10013.55 will be "01001355"
Total Length				38		

3.1.10 Trigger file details for full version

To verify the downloaded files at client's end, trigger files have been added for each Order and Trade file for all segments. Please find following layout and segment wise trigger file distribution.

Message Layout			
Frequency	For every file		
Field No.	Field Name	Field Description	Other Comments
1	MD5 sum	To verify data integrity using MD5 algorithm	MD5SUM= 32 Alphanumeric characters Global filename: SEG_FileType_DDMMYYYY.DAT.gz.trg Example: FAO_Trades_20112020_02.DAT.gz.trg Tigger content: a50a1646ae6dc59c66d3be3e15b9e1cf FAO_Trades_20112020_02.DAT.gz
2	Size of the file in bytes	To verify size of file in bytes.	Global filename: SEG_FileType_DDMMYYYY.DAT.gz.trg Example: FAO_Orders_20112020_02.DAT.gz.trg Tigger content: 10172205 sizes in bytes for file FAO_Orders_20112020_02.DAT.gz

Segment Wise Trigger File Distribution:

Segment	File name	Trigger file name
CM	CASH_Orders_DDMMYYYY_nn.DAT.gz	CASH_Orders_DDMMYYYY_nn.DAT.gz.trg
	CASH_Trades_DDMMYYYY_nn.DAT.gz	CASH_Trades_DDMMYYYY_nn.DAT.gz.trg
	CASH_Index_DDMMYYYY.DAT.gz	CASH_Index_DDMMYYYY.DAT.gz.trg
FAO	FAO_Orders_DDMMYYYY_nn.DAT.gz	FAO_Orders_DDMMYYYY_nn.DAT.gz.trg
	FAO_Trades_DDMMYYYY_nn.DAT.gz	FAO_Trades_DDMMYYYY_nn.DAT.gz.trg
CD	CDS_Orders_DDMMYYYY.DAT.gz	CDS_Orders_DDMMYYYY.DAT.gz.trg
	CDS_Trades_DDMMYYYY.DAT.gz	CDS_Trades_DDMMYYYY.DAT.gz.trg
COM	COM_Trades_DDMMYYYY.DAT.gz	COM_Trades_DDMMYYYY.DAT.gz.trg
	COM_Orders_DDMMYYYY.DAT.gz	COM_Orders_DDMMYYYY.DAT.gz.trg

4. Jiffy Time Conversion

The time specified in the order and trade files for all segments is recorded in jiffies. To properly convert jiffies into a valid timestamp, please adhere to the provided instructions.

The factors to be considered when converting jiffies to a timestamp are detailed below. An example is given using Excel formulas, but users may utilize any programming language for the conversion.

Sr. No.	Parameters	Values	Constants	Formulas
1.	Time (In Jiffy)	91200611817221	AB	
2.	1 second (In Jiffy)	65536	AC	
3.	Multiplier / Divider (For microseconds)	1000000	AD	
4.	Epoch time from 01-01-1980 12:00:00 AM GMT	315513000000000	AE	
5.	Epoch Time	1707123898089920	AG	$((AB/AC)*AD) + AE$
6.	Calculation For Time	1707123898.089920	AH	AG/AD
7.	1 day (In seconds) (24*60*60)	86400	AI	
8.	In GMT (Format: dd-mm-yyyy hh:mm:ss.000)	05-02-2024 09:04:58.090	AJ	$(AH/AI) + DATE(1970, 1, 1)$
9.	Local Time Zone IST (Format: dd-mm-yyyy hh:mm:ss.000)	05-02-2024 14:34:58.090	AK	$AJ + TIME(5, 30, 0)$

It is important to note that Excel's maximum precision is limited to milliseconds. However, it is possible to attain precision at the microsecond or nanosecond level through programming techniques.

5. Important Notes

5.1 Segment-Wise Historical Order & Trade Data Size Variations (Full)

The Historical Order & Trade Data structure sizes changes in chronological order across all segments:

Sr. No.	Effective Date Range		Segment	Order Size [Bytes]		Trade Size [Bytes]		Details
	From	To		Old	New	Old	New	
1	07-Sep-2020	To Date	FAO	NA	NA	123	124	Increase in Trade Number size
2	01-Feb-2022	To Date	FAO	111	112	NA	NA	Addition of Limit Price Indicator flag in Orders files
3	01-Feb-2022	To Date	CD	111	112	NA	NA	Addition of Limit Price Indicator flag in Orders files
4	01-Jul-2024	13-Jun-2025	CM	NA	NA	100	101	Increase in Trade Number size
5	28-Mar-2025	28-Mar-2025	CM	87	91	101	103	Refer Question 5 in 7.1 in FAQ Section
6	16-Jun-2025	To Date	CM	87	91	101	103	Increase in the Volume/Quantity fields size
7	01-Nov-2025	To Date	COM	111	117	123	127	Increase in the Price fields size

5.2 Segment-Wise Historical Order & Trade Data Size Variations (Trim)

The Historical Order & Trade Data structure sizes changes in chronological order across all segments:

Sr. No.	Effective Date Range		Segment	Order Size [Bytes]		Trade Size [Bytes]		Details
	From	To		Old	New	Old	New	
1	18-May-2026	To Date	CM	NA	68	NA	82	Introduction of a Trim version in CM
2	18-May-2026	To Date	FAO	NA	91	NA	103	Introduction of a Trim version in FAO
3	18-May-2026	To Date	CD	NA	91	NA	103	Introduction of a Trim version in CD
4	18-May-2026	To Date	COM	NA	94	NA	107	Introduction of a Trim version in COM

5.3 Segment-Wise File Split Changes

The following are the segments in which the individual order and trade files were split according to the number of streams.

Sr. No.	Effective Date	Segment
1	02-NOV-2020	FAO
2	01-JUL-2025	CM

5.4 Interpreting Valid Range of Numeric Values

Unless explicitly stated otherwise for a specific field, all integral data types shall be interpreted and processed as signed numeric types signed short integers, signed integers, or signed long integers based on the field length defined in this specification.

- **Non-Negative:** Values should be greater than or equal to zero (≥ 0).
- **Non-Zero:** Values should not be zero (> 0) unless explicitly stated in the specification for a particular field.

5.5 Interpreting Volumes

For derivative instruments, all volume fields are expressed in contract units. Any conversion to underlying quantity, if required, must be derived externally using the applicable contract lot size from the contract master.

6. About SFTP (Secure File Transfer Protocol)

File transfer of Historical Order and Trade data shall be performed over SFTP (Secure File Transfer Protocol) over the Internet.

6.1 Client Inputs and Prerequisites

The client shall provide the following details with NSE Data & Analytics Limited (NDAL):

- SSH RSA Public Key of the client system
- Static Public IP address for SFTP access

These details are mandatory for enabling secure access.

Only the public key (id_rsa.pub) shall be shared with NDAL after the successful generation of the key pair (public and private keys).

6.2 NDAL Deliverables

Upon successful processing, NDAL shall provide the following access details:

- SFTP server URL / host name
- SSH port number
- User ID (to be provisioned by NDAL)
- Remote directory path

6.3 General Guidelines

- File transfer shall be performed over a secure SFTP channel using SSH key- based authentication.
- Password-based authentication shall not be supported. Access shall be granted only upon successful registration of the client's SSH RSA public key with NDAL.
- Clients should ensure that the private key corresponding to the registered public key is securely stored and not shared.
- Clients are responsible for configuring their local systems and SFTP client tools for establishing the connection and downloading files.
- NDAL does not provide SFTP software or support for client-side configuration and setup.

6.4 SFTP on Linux platform

The Open SSH suite, which comes pre-installed in most Linux distributions, can be used for transferring files securely using SFTP.

The SSH key-pair is generally generated in the “.ssh” directory in the user’s home directory.

It is highly recommended that you consult your systems administrator to generate/locate the key-pair and set up SFTP for you.

Continue reading for information on how to generate the key-pair.

6.4.1 Generation of the SSH RSA key-pair on Linux

- Generate the new key-pair with following command:

```
ssh-keygen -t rsa -C "user@host"
```

You will receive the following prompt:

```
Generating public/private rsa key pair.
"Enter file in which to save the key".
```

Press Enter to continue with the defaults.

You will receive the following prompt:

```
Enter file in which to save the key
(/host/users/user/.ssh/id_rsa):
```

Press Enter to continue with the defaults.

If a file already exists with the same name, then you will receive the following prompt:

```
/host/users/user/.ssh/id_rsa already exists.
Overwrite (y/n)?
```

Type “y” and press Enter to overwrite.

- You will be prompted to enter a passphrase as follows:

Enter passphrase (empty for no passphrase): Press Enter to continue without a passphrase.

- You will be prompted to re-enter the passphrase:

Enter same passphrase again:

Press Enter again to continue without a passphrase.

After you enter a passphrase, you will be presented with the “Fingerprint” (or ID) of your SSH key.

It will look like this:

```
Your identification has been saved in
/host/users/user/.ssh/id_rsa.
Your public key has been saved in
```

```
/host/users/user/.ssh/id_rsa.pub.  
The key fingerprint is:   
87:c4:85:90:91:16:39:de:c2:26:49:4a:b3:38:80:97  
user@host
```

After generating public key, users need to share the Public Key file to NDAL to request the credentials.

NOTE: In above steps the words “host” and “user” are used to represent the host name and username of the machine. This is used for demo purposes only. The same will differ as per your server and usernames.

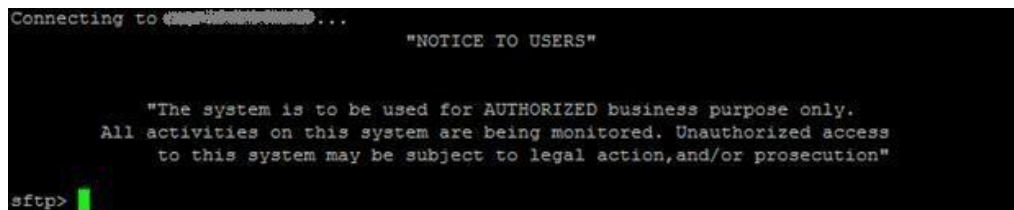
6.4.2 SFTP Login

Login to the NDAL Server over SFTP using the following command:

```
sftp -o PORT=6010 remote_user@remote_host
```

Where remote_user is the User ID provided to you by the NDAL upon sharing your Public Key and remote_host is the NDAL Server IP.

You should get the SFTP prompt as below, upon successful login:



```
Connecting to 10.10.10.10...  
"NOTICE TO USERS"  
  
"The system is to be used for AUTHORIZED business purpose only.  
All activities on this system are being monitored. Unauthorized access  
to this system may be subject to legal action, and/or prosecution"  
sftp>
```

6.4.3 Fetching files over SFTP

The SFTP “get” command may be used at the SFTP prompt for fetching the files while logged into the host over SFTP.

6.4.4 Ending the SFTP session

The SFTP “bye” command may be used for terminating the session.

6.4.5 SFTP commands help

Help may be obtained with SFTP commands by typing the “help” command at the SFTP prompt.

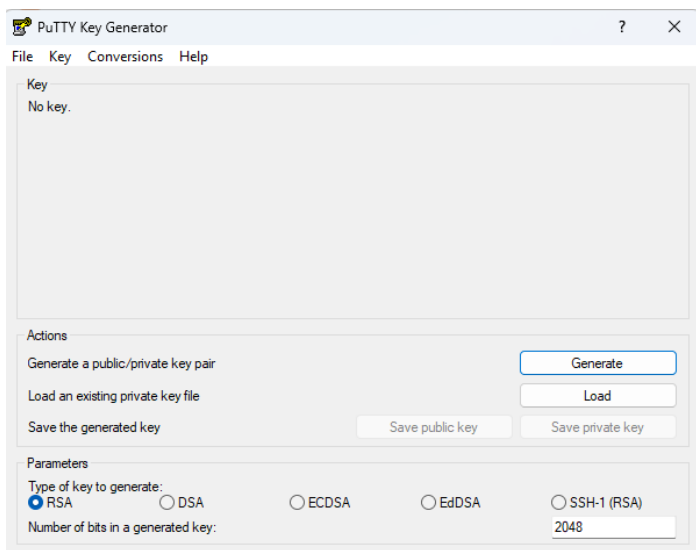
6.5 SFTP on Windows platform

6.5.1 Generation of the SSH RSA key-pair on Windows

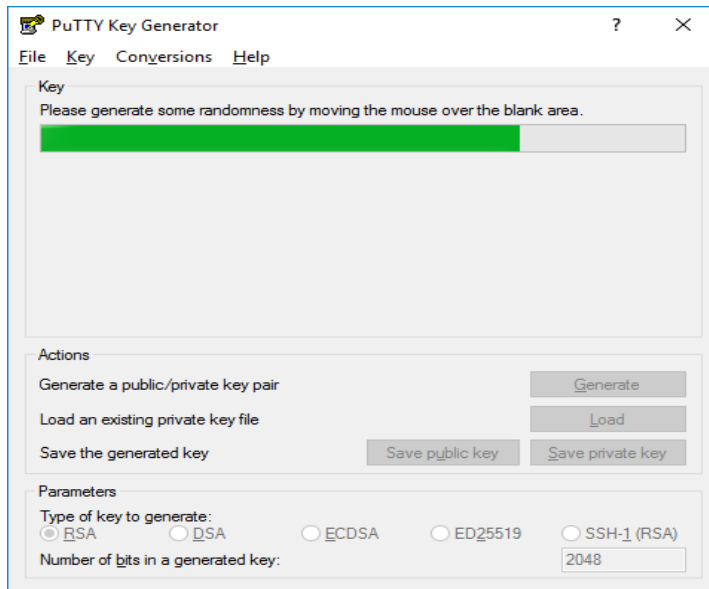
This guide explains how to generate the SSH RSA key-pair using the PuttyGen application.

Download the PuttyGen application (freely available on the Internet). Then follow these steps to generate the key-pair:

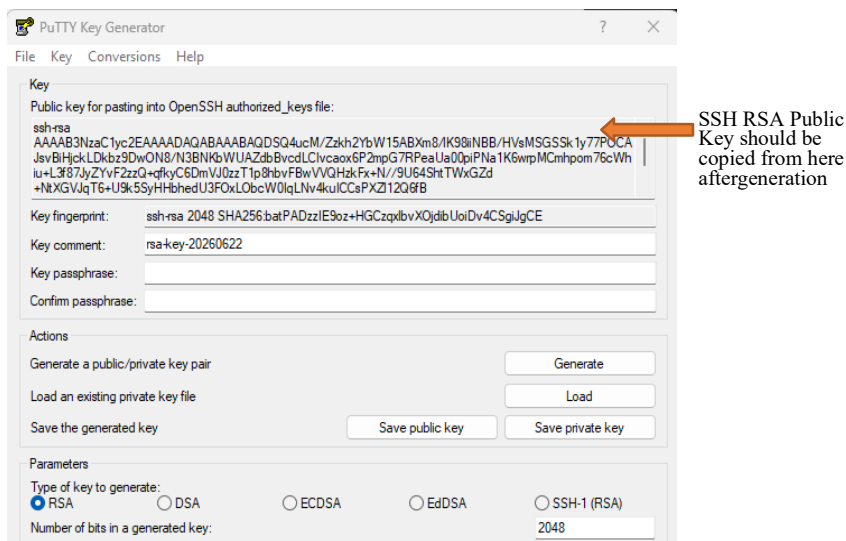
- Start the PuttyGen application.
You will be presented with a dialog which looks something like this:



- Select "RSA" (corresponding to SSH-2 RSA) with a key size of 2048 bits or higher.
- Click Generate and move the mouse randomly within the window. PuTTYgen uses these movements to collect entropy (randomness), which is essential for secure key generation. The progress bar will advance as sufficient randomness is gathered.



- The duration of this step may vary depending on the chosen key size. Once the progress bar is complete, PuTTYgen will begin the key generation process, which may take a few seconds to a few minutes.
- Upon completion, the generated public key will be displayed in the window.
- After generating the key, you will be shown the screen below. Keep the "Key passphrase" and "Confirm passphrase" as blank.



- Create a blank file with the name "id_rsa.pub".
This will be the public key file which will be populated with your Public Key and shared with the NDAL.
- Copy the public key content as presented on the screen (selected area in the below screenshot) and paste into newly created public key file (id_rsa.pub) and save the file.
- Share this Public Key File (id_rsa.pub) with the NDAL when requesting for SFTP credentials.

6.5.2 SFTP Client Software on Windows

There are multiple SFTP Client Programs (paid for and free) available for transferring files over SFTP.

One such software is WinSCP, available for free from the WinSCP website. This program is intuitive, user friendly and can be used in interactive mode (GUI) as well as from the command line (for automation/batch processing).

Information on using WinSCP can be found on the WinSCP website.

6.6 Further support

Apart from the above guide, many of the online resources can be referred to on the World Wide Web for more information on how to set up and use SFTP at the Client's site on various OS platforms.

Note: This "SFTP (Secure File Transfer) Access, Setup and Usage" section is intended as a guide used to understand and become familiarized with this transfer protocol.

7. Annexure

7.1 Acronyms Used

BOD	Begin Of Day Information
EOD	End Of Day Information
Online	Information Sent During Market Timing
CM	Cash Market
FO/FAO	Future & Options Market
CD	Currency Derivatives Market
COM	Commodity Market
MKT	Market
LF	Line Feed
MTBT	Multicast Tick By Tick
EGR	Electronic Gold Receipts
CBRICS	Corporate Bond Reporting and Integrated Clearing System
NSE IX	NSE International Exchange
RFQ	Request For Quote

8. FAQs

8.1 General

- 1) What is the client identity flag indicating beneficiary- Custodian, Proprietary and Client in full version?
Custodian – A custodian is a member, who settles trades on behalf of their clients.
Proprietary – A trading member places the Order with its own fund.
Client – Retail
- 2) Is the Volume disclosed functionality being applicable in FAO segment in full version?
The Volume disclosed functionality is not applicable in FAO segment in full version.
- 3) Can a single symbol appear in more than one stream within the CM Historical application?
Yes, a single symbol can appear across multiple streams. This typically happens when the symbol is traded under different series, with each series potentially linked to a distinct stream in the CM Historical application.
- 4) Are the CM Historical Files dated March 28, 2025, free from data integrity issues?
Yes, the files for March 28, 2025, are available and verified to be free of data integrity issues. These files reflect updated record lengths:

CM Order record: 91 bytes
CM Trade record: 103 bytes

Background:

On March 28, 2025, an individual order quantity exceeded the previous 8-digit limit of 99,999,999. To accommodate this, the quantity fields in both Order and Trade records were expanded to support up to 10 digits.

Note:

- The above record lengths apply only to the files dated March 28, 2025.
 - Starting June 16, 2025, the increased record lengths will be adopted for all CM Order and Trade files.
 - Files dated prior to June 16, 2025, will retain the original lengths of 87 bytes (Order file) and 101 bytes (Trade file).
- 5) Why are volumes unusually low on certain days?
Lower volumes on specific days are typically due to special trading events such as:
 - **Muhurat Trading** – Conducted annually on Diwali, this symbolic session is shorter and sees limited participation.
 - **Special Live Trading Sessions** – Organized to test the Business Continuity Plan (BCP) as mandated by SEBI, these sessions often involve reduced trading hours and limited activity.

- 6) How is the delivery delay calculated for Historical Orders and Trades data?
- The delivery delay is determined based on the file type and is computed from the respective event (trade/order) date, as outlined below:
- **Order Data:** Delivered with a lag of **90 calendar days** from the event date.
 - **Trade Data:** Delivered with a lag of **30 calendar days** from the event date.
- The delay ensures compliance with applicable data dissemination policies.

Illustrative Example – Data Delivery Schedule

The following examples demonstrate the application of the delay logic for Historical Orders and Trades data across different file dates and scenarios:

Trade Data:

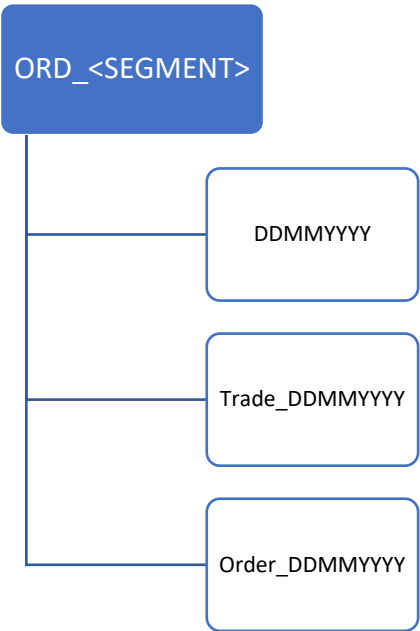
File Date (Trading Date)	Delivery Date (30 days delay)	Transfer Status
18-May-2026	17-Jun-2026	Transfer
19-May-2026	18-Jun-2026	Transfer
20-May-2026	19-Jun-2026	Transfer
21-May-2026	20-Jun-2026 (Saturday)	Transfer
22-May-2026	21-Jun-2026 (Sunday)	Transfer
23-May-2026 (Holiday)	22-Jun-2026	No Transfer
24-May-2026 (Holiday)	23-Jun-2026	No Transfer

Order Data:

File Date (Trading Date)	Delivery Date (90 days delay)	Transfer Status
18-May-2026	16-Aug-2026 (Sunday)	Transfer
19-May-2026	17-Aug-2026	Transfer
20-May-2026	18-Aug-2026	Transfer
21-May-2026	19-Aug-2026	Transfer
22-May-2026	20-Aug-2026	Transfer
23-May-2026 (Holiday)	21-Aug-2026	No Transfer
24-May-2026 (Holiday)	22-Aug-2026 (Saturday)	No Transfer

The order and trade files will be available tentatively between 1:00 AM IST to 3:00 AM IST.

Folder structure:



- **SEGMENT** = CM, FO, CD, CO
- **DDMMYYYY:** Trimmed versions of both Order and Trade files shall be made available daily for the current date.
- **Trade_DDMMYYYY:** The full Trade file corresponding to the date 30 days prior to the current date shall be made available.
- **Order_DDMMYYYY:** The full Order file corresponding to the date 90 days prior to the current date shall be made available.



8.2 Historical Data Download

- 1) What methods are available for downloading the Historical data?

There are 4 methods to download the Historical data

- End of Day Data (Through SFTP)
- NDAL Downloader client (Through Internet)
- Historical Data (Through Cloud)
- End of Day Data (Through Cloud)

8.3 EOD Download (for SFTP)

- 1) At what time do files become available in SFTP for download?

Below are the timings of file availability on SFTP

Sr. No.	Segment	Timing
1	CM	09:00PM IST
2	FAO	01:00AM IST (Next day)
3	CD	09:00PM IST
4	COM	01:00AM IST (Next day)

The timings mentioned above are provisional. Please be aware that the availability of the files may be affected by any delays from the source.

- 2) At what time does the corresponding checksum file become available in SFTP for a trades/orders file?

The checksum will be available only after the completion of order and trade files DAT & trg files.

Please note that the availability of the checksum files is subject to the delay if any from the source end.

- 3) For how many days the files will be available in SFTP?

The previous three days files will be available in SFTP for all segments.

- 4) Download of files through SFTP was working till last week, suddenly our connection to sftp is failing. How do we resolve it?

If you use SFTP on Windows, please ensure you are using the latest version of WinSCP or any other equivalent tool.

If you are using SFTP programmatically or through an API, please ensure you **don't use the following cipher**:

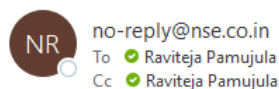
- diffie-hellman-group-exchange-sha1
- diffie-hellman-group14-sha1
- diffie-hellman-group1-sha1

8.4 Historical Data Download (Through Downloader application)

1) How to download the data?

Once the subscription request approved by NDAL Team, user will receive mail like below with subscription id and link to data downloader.

Your subscription for WDM for the period 01-03-2022 to 31-03-2022 has been approved



Dear RAVITEJA P ,

Your subscription for Historical (Type: Trades) for the period 01-03-2022 to 31-03-2022 has been approved

Subscription Id: KXOOK1658206314462

You can download files from our downloader.

To download file downloader [click here](#)

This is system generated mail kindly do not reply.

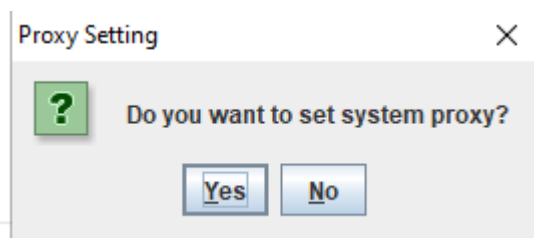
To download to downloader client user must click on [click here](#) link.

2) Which Downloader software and JDK version should clients use, and what is the impact of non-compliance?

Clients must use Downloader Client_v1.6.exe and ensure that JDK 21.0.8 is installed on their system. Use of any other Downloader version or JDK release may result in download failures or unexpected issues during the file download process.

3) How to set System Proxy in downloader client?

After opening downloader client user will get window like below



Select Yes if user accessing internet through LAN (Wired connection).

Select No if user is accessing internet through WLAN/WIFI (Wireless connection).

4) How to Check number of files and total downloadable size for a subscription?

After successful user authentication, one file will be generated in the user's system in location same as downloader client in below format

downloader_Subscriptionid _size.txt

ex: downloader_KXOOK1658206314462_size.txt

Sample content:

26-07-2022 20:00:030 PM: List of all the files

CASH_Orders_26062022_01.DAT.gz file size is 1534899 in Bytes which is equal to 1.46 MB

CASH_Trades_26062022_01.DAT.gz file size is 5029 in Bytes which is equal to 4.91 KB

CASH_Index_26062022.DAT.gz file size is 10880 in Bytes which is equal to 10.62 KB

Total number of files count is 3

Total size of all the files is 1550808 in Bytes which is equal to 1.48 MB

- 5) How to check correctness of downloaded files?

For daily data user can make use of trg files for the files from 01 Dec 2020. Kindly refer section [6 Trigger File Details](#) for more details about trg files.

- 6) We are currently experiencing a low speed in downloading the files, can this be made faster in any way?

We have a shared bandwidth of 1 Gbps. The speed of the download will depend on many factors how many hops your internet provider has and lastly on the number of clients downloading the data feed at the same time from our server.

- 7) How many concurrent downloads can we have for each subscription?

Concurrent download is not allowed.

- 8) Is there any bandwidth limitation at NDAL to download the files?

There is no capping of bandwidth to download the files.

- 9) How many files can be downloaded at a time?

Only five files are allowed to download at a time, once the file downloaded then the next file i.e. 6th file will start downloading automatically.

- 10) We are getting "Internal server error" while logging to downloader client? what should we do next?

Please re-run the Downloader Client and verify whether the issue is resolved. If the problem persists, kindly report the issue by emailing marketdata@nse.co.in.

- 11) We are getting error "Only one system can be allowed to download the files" while trying to download the files?

Please download the files from the system where you have installed the downloader client and attempted the downloading of files for the first time.

- 12) We are unable to login to the historical data website. Our account is showing as locked out when trying to login to the site?

Please click on the "Forget Password" option link for receiving the password over email and try to login with the received password.

8.5 Historical Data Download (Through Cloud)

1) Is the Historical data available on Cloud?

Yes. The Historical data available on cloud. At present, AWS cloud is supported.

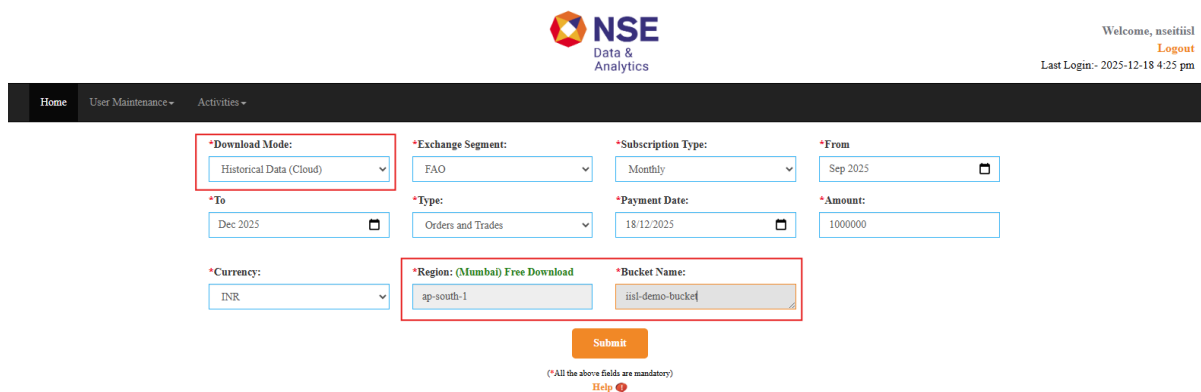
The AWS download involves the transfer of historical data from the NDAL S3 bucket to the client's S3 bucket. The data transfer occurs at a remarkably high speed, supported by the AWS infrastructure, and the entire process is conducted securely.

2) What are the pre-requisites for using Cloud download?

- An active AWS account is necessary to create and manage the S3 bucket.
- The S3 bucket must be provisioned in the Mumbai region.
- NDAL will deliver the subscribed data directly to the client-owned S3 bucket.
- To facilitate a seamless transfer process, the client must grant the necessary permissions for file transfers to the designated S3 bucket.

3) What information do I need to provide?

- Client needs to provide the created bucket name and region name (will be Mumbai by default) while subscribing for data.



Welcome, nseinitial
Logout
Last Login:- 2025-12-18 4:25 pm

Home User Maintenance Activities

*Download Mode: Historical Data (Cloud) *Exchange Segment: FAO *Subscription Type: Monthly *From: Sep 2025

*To: Dec 2025 *Type: Orders and Trades *Payment Date: 18/12/2025 *Amount: 1000000

*Currency: INR *Region: (Mumbai) Free Download ap-south-1 *Bucket Name: iisl-demo-bucket

Submit

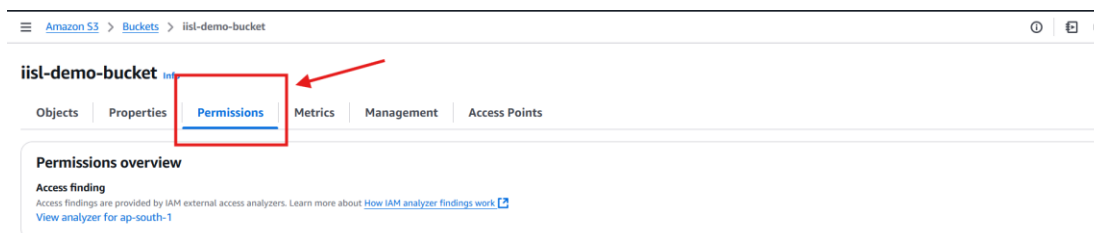
(*All the above fields are mandatory)
Help

- Additionally, client needs to provide permissions for file transfers to the specified S3 bucket.

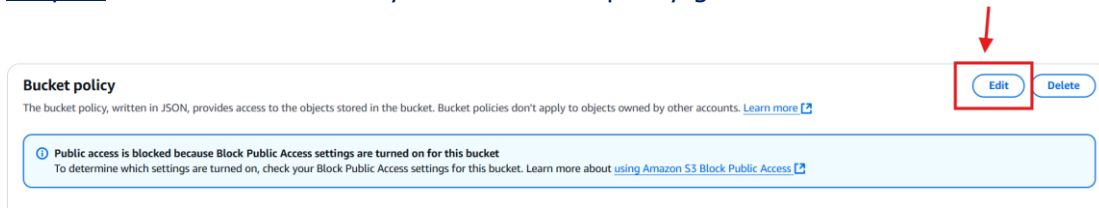
4) How do I add necessary permissions to my bucket?

Assuming you are using Default Encryption (SSE-S3), please follow the step below to add permissions to your bucket.

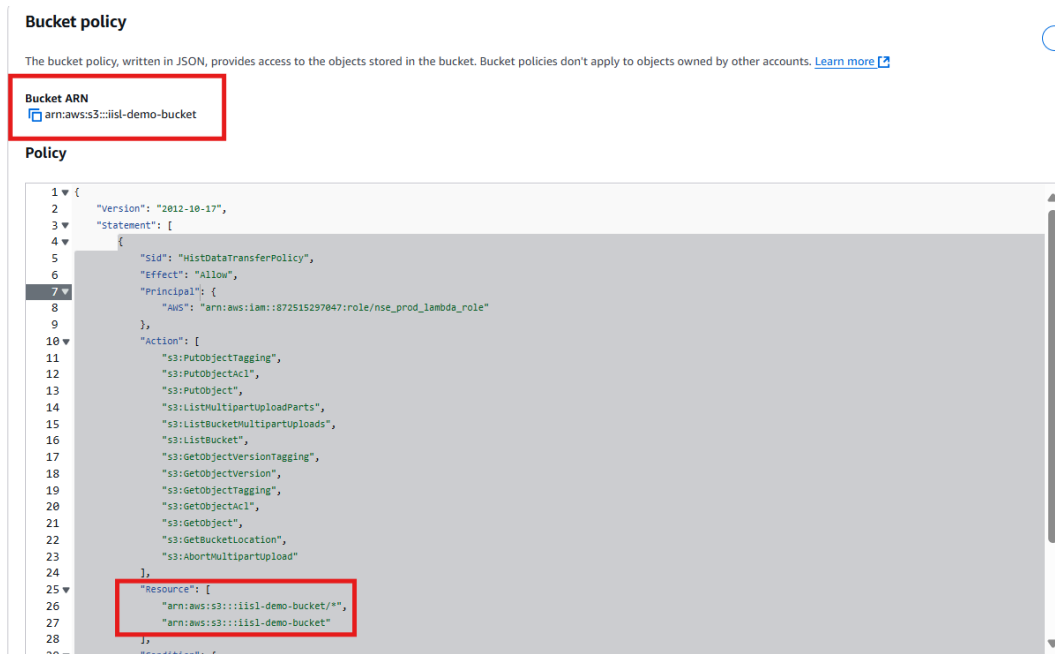
Step 1: Click on your bucket and Go to Permissions.



Step 2: Edit the bucket Policy and Paste the policy given below.



Ensure that you copy and paste your bucket's ARN to "Resource" as shown in screenshot and save the changes.



Below is the Policy you need to add: -

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "HistDataTransferPolicy",
      "Effect": "Allow",
      "Principal": {
        "AWS":
          "arn:aws:iam::872515297047:role/nse_prod_lambda_role"
      },
      "Action": [
        "s3:PutObjectTagging",
        "s3:PutObjectAcl",
        "s3:PutObject",
        "s3:ListMultipartUploadParts",
        "s3:ListBucketMultipartUploads",

```

```

        "s3:ListBucket",
        "s3:GetObjectVersionTagging",
        "s3:GetObjectVersion",
        "s3:GetObjectTagging",
        "s3:GetObjectAcl",
        "s3:GetObject",
        "s3:GetBucketLocation",
        "s3:AbortMultipartUpload"
    ],
    "Resource": [
        "your-bucket-arn/*",
        "your-bucket-arn"
    ],
    "Condition": {
        "Bool": {
            "aws:SecureTransport": "true"
        }
    }
}
]
}

```

- 5) Why are extensive permissions required on our S3 bucket as mentioned earlier, especially considering it may contain proprietary data?

These permissions are essential for the following reasons:

- **File Integrity Verification:** To ensure that the downloaded files have not been corrupted or altered.
- **Download Completion Check:** To confirm that the entire file has been successfully downloaded. If a partial download is detected, the system uses the resume functionality to complete it.

- 6) Will this transfer affect my existing data in the bucket?

No, it won't. Please note that we will be transferring the subscribed data to the designated bucket.

- 7) Do I have to pay for downloading Historical Data using AWS?

Since data transfer will be within same region (Mumbai: ap-south-1), it will be free cost (this pertains to data transfer from our S3 bucket to client's S3 bucket).

- 8) What if I want to transfer data to Bucket which is in different region?

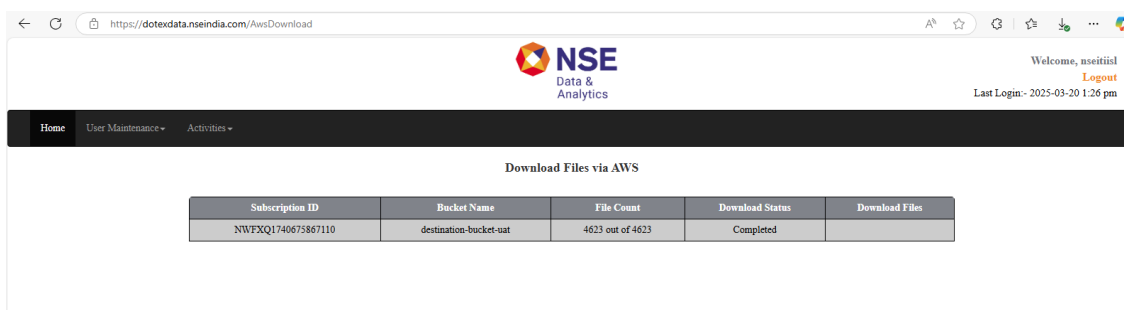
Currently, data transfer outside of Mumbai region is not supported.

Suppose your bucket is based in a different region like US East (us-east-1) or Hyderabad (ap-south-2), you will have to transfer data from your Mumbai bucket (ap-south-1) to your desired region bucket.

- 9) How will I know If data is being transferred in my AWS Bucket?

The client can check the status of the transfer by 2 methods:

- Navigate to Activities tab -> Download files via AWS tab to see file transfer status. File transfer status is updated automatically on website every 5 mins.



Subscription ID	Bucket Name	File Count	Download Status	Download Files
NWFXQ1740675867110	destination-bucket-usat	4623 out of 4623	Completed	

- In the client S3 bucket, check file transfer status.

10) If any file is corrupted while transfer, how will I get it again?

In cases of corrupted files, you may submit a request for the retransfer of those files by sending us an email at marketdata@nse.co.in

11) Can I request data redownload?

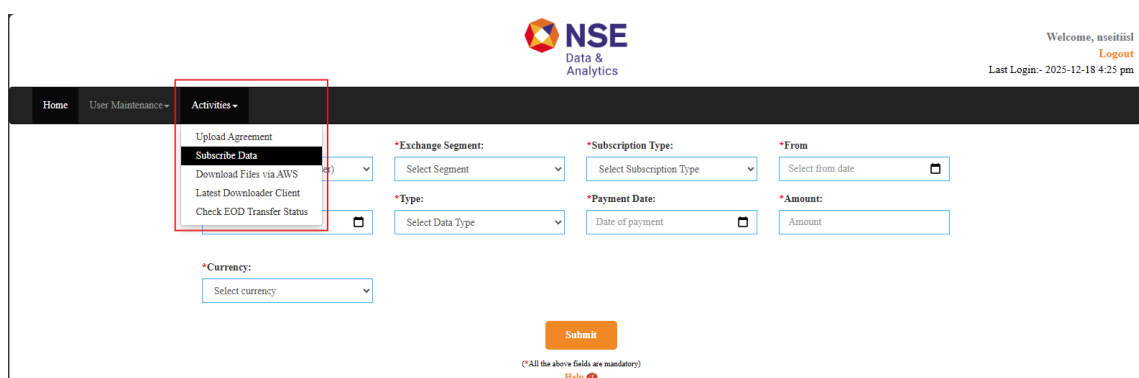
Clients may request for data redownload solely in instances where the data is either corrupted or missing. The transfer of data to AWS S3 bucket is a one-time activity.

12) Can I switch/edit a subscription from Internet to AWS?

You need to re-subscribe (create a new Subscription).

13) How to subscribe for AWS data?

- Login to <https://dotexdata.nseindia.com/>
- Navigate to Activities -> Subscribe Data



- In Download Mode Dropdown, select Historical Data (Cloud) and enter your bucket name (your bucket needs to be created in Mumbai region).



Welcome, nseitisil
Logout
Last Login:- 2025-12-18 4:25 pm

Home User Maintenance Activities

*Download Mode:
Historical Data (Cloud)
Historical Data (Downloader)
EOD Data (Cloud)

*Exchange Segment:
Select Segment

*Subscription Type:
Monthly

*From:
Select from date

*Type:
Select Data Type

*Payment Date:
Date of payment

*Amount:
Amount

*Currency:
Select currency

*Region: (Mumbai) Free Download
ap-south-1

*Bucket Name:
Bucket Name

Submit

(*All the above fields are mandatory)



Welcome, nseitisil
Logout
Last Login:- 2025-12-18 4:25 pm

Home User Maintenance Activities

*Download Mode:
Historical Data (Cloud)

*Exchange Segment:
FAO

*Subscription Type:
Monthly

*From:
Sep 2025

*To:
Dec 2025

*Type:
Orders and Trades

*Payment Date:
18/12/2025

*Amount:
1000000

*Currency:
INR

*Region: (Mumbai) Free Download
ap-south-1

*Bucket Name:
iisl-demo-bucket

Submit

(*All the above fields are mandatory)

14) How to download AWS data?

Once you have created a new subscription to download files via AWS, you need to give following permissions on that bucket so that subscribed files can be pushed from NDAL S3 bucket to your S3 bucket.

15) How to start transfer from NDAL S3 to clients S3 bucket

Once you have subscribed for data via Activity -> Subscribe Data-> AWS download and given NDAL necessary permissions to write into your S3 Bucket, navigate to Activities tab -> Download files via AWS tab and click on "Download" button. The data transfer will be in few minutes.

https://dotextdata.nseindia.com/AwsDownload



Welcome, nseitisil
Logout
Last Login:- 2025-03-20 6:00 pm

Home User Maintenance Activities

Download Files via AWS

Subscription ID	Bucket Name	File Count	Download Status	Download Files
AWAED1742365513804	iisl-demo-bucket			Download
NWFXQ1740675867110	destination-bucket-uat	4623 out of 4623	Completed	

16) Are the downloaded files encrypted or unencrypted?

The downloaded files are not encrypted. They are delivered in a compressed (.gz) format using standard ZLIB/ Gzip compression. To access the data, clients simply need to decompress the .gz files using any standard decompression tool. Once decompressed, the files are in readable, plain-text format.

8.6 End of Day Data Download (Through Cloud)

1) Is the End of Day data available on Cloud?

Yes. End of Day data is available on cloud. At present, AWS cloud is supported.

The AWS download involves the transfer of EOD data from the NDAL S3 bucket to the client's S3 bucket. The data transfer occurs at a remarkably high speed, supported by the AWS infrastructure, and the entire process is conducted securely.

2) What are the pre-requisites for using Cloud download?

- An active AWS account is necessary to create and manage the S3 bucket.
- The S3 bucket must be provisioned in the Mumbai region.
- NDAL will deliver the subscribed data directly to the client-owned S3 bucket.
- To facilitate a seamless transfer process, the client must grant the necessary permissions for file transfers to the designated S3 bucket.

3) At what time do files become available on Cloud for download?

The EOD files are automatically transferred to the client's S3 bucket after 11:00 PM (23:00 IST).

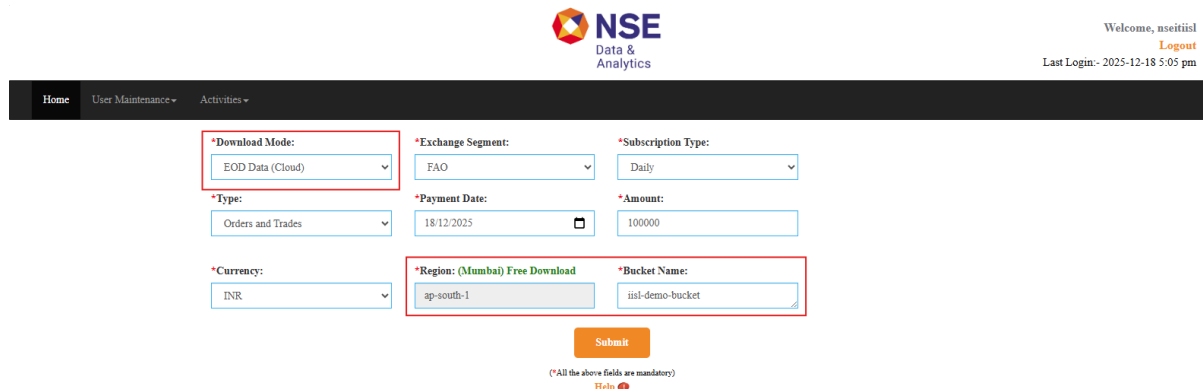
The above-mentioned timelines are provisional and may vary in case of delays at the source. Only fully generated (completed) files are transferred. If certain files take longer to generate, the remaining files will be transferred once their generation is completed

4) At what time does the corresponding checksum file become available on the Cloud for a trades/orders file?

When subscribed to EOD data delivery through the Cloud, checksum verification is performed prior to transferring the DAT and TRG files to the client's AWS S3 bucket. The checksum file becomes available along with the successful transfer of the respective data files.

5) What information do I need to provide?

- Client needs to provide the created bucket name and region name (will be Mumbai by default) while subscribing for EOD data.



The screenshot shows the NSE Data & Analytics web interface. At the top, there is a navigation bar with 'Home', 'User Maintenance', and 'Activities'. The main content area contains a subscription form for EOD data. The form includes the following fields:

- Download Mode:** A dropdown menu with 'EOD Data (Cloud)' selected.
- Exchange Segment:** A dropdown menu with 'FAO' selected.
- Subscription Type:** A dropdown menu with 'Daily' selected.
- Type:** A dropdown menu with 'Orders and Trades' selected.
- Payment Date:** A date input field showing '18/12/2025'.
- Amount:** A text input field showing '100000'.
- Currency:** A dropdown menu with 'INR' selected.
- Region: (Mumbai) Free Download:** A dropdown menu with 'ap-south-1' selected.
- Bucket Name:** A text input field showing 'iisl-demo-bucket'.

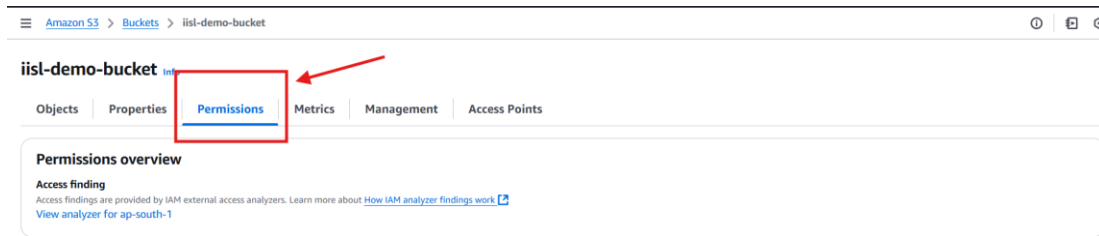
Below the form is a 'Submit' button. At the bottom, there is a note: '(All the above fields are mandatory)' and a 'Help' link with a heart icon.

- Additionally, client needs to provide permissions for file transfers to the specified S3 bucket.

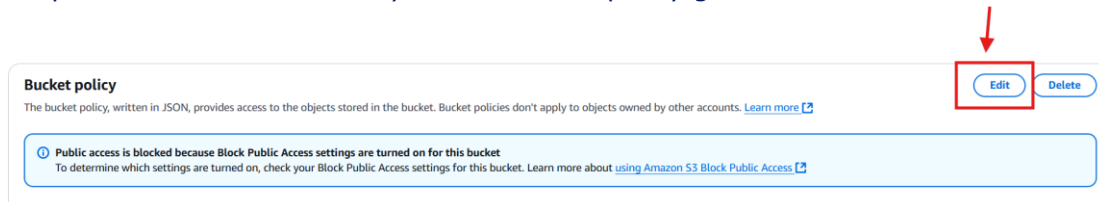
6) How do I add necessary permissions to my bucket?

Assuming you are using Default Encryption (SSE-S3), please follow the step below to add permissions to your bucket.

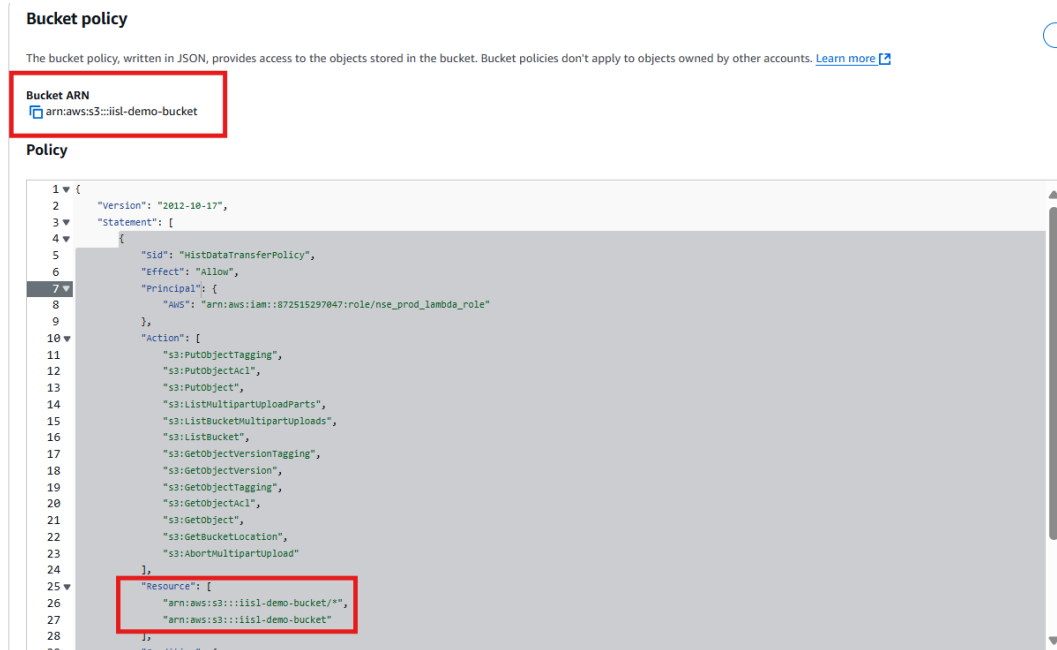
Step 1: Click on your bucket and Go to Permissions.



Step 2: Edit the bucket Policy and Paste the policy given below.



Ensure that you copy and paste your bucket's ARN to "Resource" as shown in screenshot and save the changes.



Below is the Policy you need to add: -

```

{
  "Version": "2012-10-17",
  "Statement": [
    {

```

```

        "Sid": "HistDataTransferPolicy",
        "Effect": "Allow",
        "Principal": {
          "AWS": "arn:aws:iam::872515297047:role/nse_prod_lambda_role"
        },
        "Action": [
          "s3:PutObjectTagging",
          "s3:PutObjectAcl",
          "s3:PutObject",
          "s3:ListMultipartUploadParts",
          "s3:ListBucketMultipartUploads",
          "s3:ListBucket",
          "s3:GetObjectVersionTagging",
          "s3:GetObjectVersion",
          "s3:GetObjectTagging",
          "s3:GetObjectAcl",
          "s3:GetObject",
          "s3:GetBucketLocation",
          "s3:AbortMultipartUpload"
        ],
        "Resource": [
          "your-bucket-arn/*",
          "your-bucket-arn"
        ],
        "Condition": {
          "Bool": {
            "aws:SecureTransport": "true"
          }
        }
      }
    ]
  }

```

- 7) Why are extensive permissions required on our S3 bucket as mentioned earlier, especially considering it may contain proprietary data?

These permissions are essential for the following reasons:

- **File Integrity Verification:** To ensure that the downloaded files have not been corrupted or altered.
- **Download Completion Check:** To confirm that the entire file has been successfully downloaded. If a partial download is detected, the system uses the resume functionality to complete it.

- 8) Will this transfer affect my existing data in the bucket?

No, it won't. Please note that we will be transferring the subscribed data to the designated bucket.

- 9) Do I have to pay for downloading End of Day Data using AWS?

Since data transfer will be within same region (Mumbai: ap-south-1), it will be free of cost (this pertains to data transfer from our S3 bucket to client's S3 bucket).

10) What if I want to transfer data to Bucket which is in different region?

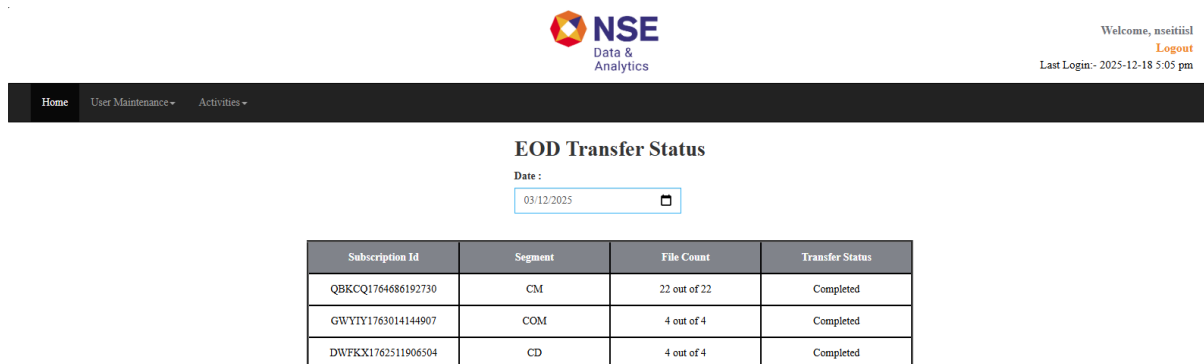
Currently, data transfer outside of Mumbai region is not supported.

Suppose your bucket is based in a different region like US East (us-east-1) or Hyderabad (ap-south-2), you will have to transfer data from your Mumbai bucket (ap-south-1) to your desired region bucket.

11) How will I know if EOD data is being transferred in my AWS Bucket?

The client can check the status of the transfer by 2 methods:

- Navigate to Activities tab -> Check EOD Transfer Status tab to see file transfer status. File transfer status is updated automatically on website every 5 mins.




Welcome, nseitiisl
Logout
Last Login:- 2025-12-18 5:05 pm

Home User Maintenance Activities

EOD Transfer Status

Date :

Subscription Id	Segment	File Count	Transfer Status
QBKCQ1764686192730	CM	22 out of 22	Completed
GWYIY1763014144907	COM	4 out of 4	Completed
DWFKX1762511906504	CD	4 out of 4	Completed

- In the client S3 bucket, check file transfer status.

12) If any file is corrupted after it has been transfer to my AWS Bucket, how will I get it again?

- In cases of corrupted files, said files will be re-transferred to your S3 bucket automatically based on your subscription, and you may check the EOD transfer status for that specific date in Login -> Activities -> Check EOD Transfer Status -> select date when file was corrupted.
- If you still face any issue, you may send us an email at marketdata@nse.co.in

13) Can I request data redownload?

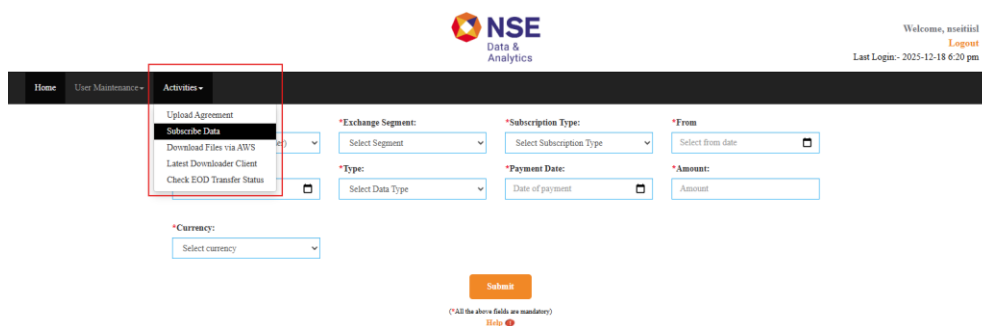
No. The transfer of EOD data to AWS S3 bucket is a one-time activity. In instances where the data is either corrupted or missing, the files will be automatically re-transferred to your AWS bucket and you can check transfer status for that Specific date.

14) Can I switch / edit a subscription from Historical Data (Cloud/ Downloader) to EOD Data(Cloud)?

No, client will need to re-subscribe (create a new Subscription).

15) How to subscribe for EOD data?

- Login to <https://dotexdata.nseindia.com/>
- Navigate to Activities -> Subscribe Data



Welcome, msitilal
Logout
Last Login:- 2025-12-18 6:20 pm

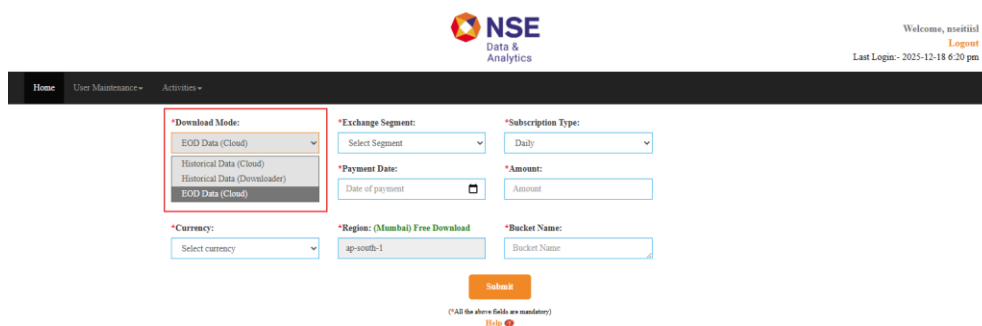
Home User Maintenance Activities

Upload Agreement
Subscribe Data
Download Files via AWS
Latest Downloader Client
Check EOD Transfer Status

*Exchange Segment: Select Segment
*Subscription Type: Select Subscription Type
*From: Select from date
*Type: Select Data Type
*Payment Date: Date of payment
*Amount: Amount
*Currency: Select currency

Submit
(*All the above fields are mandatory)
Help

- In Download Mode dropdown, select EOD Data (Cloud) and enter your bucket name (your bucket needs to be created in Mumbai Region).



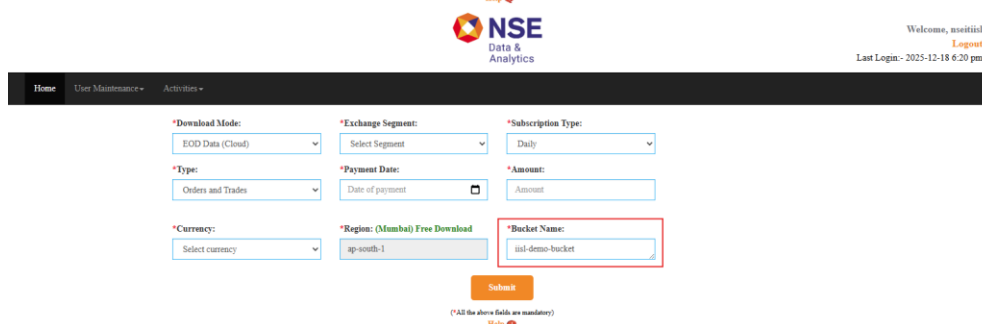
Welcome, msitilal
Logout
Last Login:- 2025-12-18 6:20 pm

Home User Maintenance Activities

*Download Mode: EOD Data (Cloud)
Historical Data (Cloud)
Historical Data (Downloader)
EOD Data (Cloud)

*Exchange Segment: Select Segment
*Subscription Type: Daily
*Payment Date: Date of payment
*Amount: Amount
*Currency: Select currency
*Region: (Mumbai) Free Download ap-south-1
*Bucket Name: Bucket Name

Submit
(*All the above fields are mandatory)
Help



Welcome, msitilal
Logout
Last Login:- 2025-12-18 6:20 pm

Home User Maintenance Activities

*Download Mode: EOD Data (Cloud)
Historical Data (Cloud)
Historical Data (Downloader)
EOD Data (Cloud)

*Exchange Segment: Select Segment
*Subscription Type: Daily
*Payment Date: Date of payment
*Amount: Amount
*Currency: Select currency
*Region: (Mumbai) Free Download ap-south-1
*Bucket Name: uid-demo-bucket

Submit
(*All the above fields are mandatory)
Help

16) How to download EOD data?

Once you have created a new subscription to download EOD Data (cloud), and it has been approved by NDAL, files will be automatically transferred in your S3 bucket on Daily basis once files have been generated. You do not need to manually initiate transfer of EOD Data.

17) Are the End-of-Day (EOD) files encrypted or unencrypted?

The EOD files are not encrypted. They are in a compressed (.gz) format using standard ZLIB/Gzip compression. To access the data, clients simply need to decompress the .gz files using any standard decompression tool. Once decompressed, the files are in readable, plain-text format.

9. Contact Information

Name	Email	Contact Number
Business & Technical Support	marketdata@nseids.co.in	+91-22-26598385