Protocol for Non-NEAT Front End (NNF)

Mutual Funds Service System

Version 2.24

DEC 2018

NSE

National Stock Exchange of India Ltd
Exchange Plaza, Plot No. C/1, G Block,
Bandra-Kurla Complex, Bandra €
Mumbai – 400 051.

Notice

Version 2.24 DEC 2018	
Pages Changed	Description
54, 77	For facilitating DPC transactions, use of existing Reserve field. Need to Pass Y or blank value
76,87	New field ByPassMinRedemptionCheck added to Order Structure
94	Added "Change in Market Status" message in Chapter 7 – Unsolicited Messages. Trans codes: (BC_CLOSE_MSG (6521) / BC_OPEN_MSG (6511)) corresponding to market close and market open will now be sent through Interactive Channel.
95	Added "General Message Broadcast" message in Chapter 7 – Unsolicited Messages. Trans codes: BCAST_JRNL_VCT_MSG(6501).

Preface

Purpose

This document describes the protocol to be used for Non-NEAT Front end (NNF) to communicate with the Mutual Fund Service System and thus serves as a development guide for the NNF users.

Target Audience

This document is written for system designers and programmers of user organizations and third party software developers who are responsible for the development of software to interact with NSE's Mutual Fund Service System.

Organization of This Document

This document is organized as follows:

Chapters	Description
Chapter 1	Provides a brief introduction to Non-NEAT Front end (NNF). It also details the NNF Terminal requirements and Communication Network.
Chapter 2	Describes the general guidelines for the designers and programmers who develop NNF. It details the data types used and also covers the Message Header that is prefaced with all the structures.
Chapter 3	Connection Layer (CL). Describes the protocol and message flow required to be implemented for communication through connection layer (CL).
Chapter 4	Describes how a trader logs on to the trading system. It also discusses the download of the updated information on the schemes, categories, SIP's and the status of the markets, and describes the log on request and the system responses. It also describes the On Demand SIP Details Download.
Chapter 5	Describes entering SIP registrations, modifying existing SIP registrations, canceling SIP registrations and Historical SIP registration on demand download and cancellations. It also describes SIP Order cancellation.
Chapter 6	Describes entering fresh orders, modifying an existing order, and canceling outstanding orders.
Chapter 7	Covers the messages that are received on the interactive connection. These messages are received by users not in response to any request.
Chapter 8	Describes the various Broadcast messages and the Compression and Decompression algorithm of Broadcast data.
Appendix	Lists the error, transaction and reason codes and also covers the various market statuses, market types and book types. Also covers security.txt, category.txt and sip.txt structures.

Abbreviations and Acronyms Used

The abbreviations and acronyms used in this document are:

AGM	Annual General Meeting
AMC	Asset Management Company
BCID	Broadcast Circuit ID
BM	Branch Manager
CM	Corporate Manager
DL	Dealer
EGM	Extraordinary General Meeting
NEAT	National Exchange for Automated Trading
NNF	Non Neat Front End
NSE	National Stock Exchange
RTA	Registrar and Transfer Agent
SIP	Systematic Investment Plan
TAP	Trading Access Point
CL	Connection Layer
TM	Trading Member
TWS	Trader Workstation
VCID	Virtual Circuit ID
VSAT	Very Small Aperture Terminal
VV.RR.SS	Version. Release. Sub-release
EUIN	Employee Unique Identification Number

CONTENTS

Chapter 1   Introduction

The National Stock Exchange of India Ltd (NSEIL) provides a fully automated screen based trading system, enabling trading members spread across the length and breadth of India to trade directly from their offices through an extensive telecommunication network. The system is known as 'National Exchange for Automated Trading' (NEAT) system. It adopts the principles of an order driven market, based on price-time priority. The trading members can use NEAT Front end or Non-NEAT Front end (NNF) to establish a network connection with the host system of National Stock Exchange (NSE) for trading. NNF is a front end which is developed and maintained by vendors other than NSE. NSE provides the NNF users with the general guideline document of the front end whereas they are supported by their respective vendors and NSE is not responsible for the performance of the NNF.

Communication Network

Connectivity to the Exchange is through WAN protocol on TCP/IP. There are two types of connectivity;

a) Interactive connectivity – On TCP/IP for user specific messages to and from the Exchange.

b) Market data – The market data is sent as broadcast based on UDP connection

Broadcast circuit ID (BCID) follows a unidirectional path which is from the host end to the TWS. All the broadcast data are transmitted through this broadcast circuit from the host end for all the traders. Since this is a one way connection, the data flow is always from the exchange (host end) to the trader terminal

Chapter 2   General Guidelines

Introduction

This chapter provides general guidelines for the designers and programmers who develop NNF. It also provides information on data types and their size which can help in understanding various structures.

Message Structure Details

The message structure consists of two parts namely message header and message data. The message header consists of the fields of the header which is prefaced with all the structures.

The message data consists of the actual data that is sent across to the host or received from the host.

Transaction code, an important field of the message header, is a unique numeric identifier which is sent to or received from the trading system. This is used to identify the transaction between the TWS and the host end.

Guidelines for Designers

1. The order of the log-on messages should strictly be maintained as given in the following section (Chapter 3) of the document. Otherwise, the user cannot log on to the trading system.

2. All time fields are number of seconds from midnight January 1 1980.

3. No host-end inquiries are permitted for NNF users.

4. All price fields must be multiplied by 100 before sending to the host end and divided by 100 while receiving from the host end as the host system processes prices in paise.

5. The buy NAV price and sell NAV price must be divided by 10000 while receiving from the host end.

6. The minimum redemption value limit is sent to FE in terms of paise. The value has to be divided by 100 while receiving from the host end.

7. The minimum physical redemption quantity limit must be divided by 100 while receiving from the host end.

8. All the other quantity limits can be considered as the exact value setup for the scheme.

9. The SIP Period values has to be interpreted as months.

Guidelines for Programmers

1. If your system uses little-endian order, the data types such as UINT, SHORT, LONG and DOUBLE contained in a packet, which occupy more than one byte should be twiddled (byte reversed). Twiddling involves reversing a given number of bytes such that the byte in 'n' position comes to the first position; the byte in (n-1) position comes to the second position and so on. For example, if the value to be sent is 1A2B (hexadecimal), reverse the bytes to 2B1A. The same applies while receiving messages. So if the value received is 02BC, the actual value is BC02. So twiddle such data types before sending and after receiving to ensure that correct data is sent and received.

    Note:

    Twiddling is required because of the variety in endian order—big and little. A big-endian representation has a multibyte integer written with its most significant byte on the left. A little-endian representation, on the other hand, places the most significant byte on the right. The trading system host end uses big-endian order.

2. All alphabetical data, excluding password, must be converted to upper case before sending to the host. No NULL terminated strings should be sent to the host end. Instead, fill it with **blanks** before sending. The strings received from the host end are padded with blanks and are not NULL terminated.

3. All the structures should be defined in the following manner:

12

- Items of type char or unsigned char, or arrays containing items of these types, are byte aligned.

- Structures are word aligned.

- All other types of structure members are word aligned.

4. All numeric data must be set to zero (0) before sending to the host, unless a value is assigned to it.

5. All reserved fields mentioned, should be mapped to CHAR buffer and initialized to NULL.

Note:

- The values of all the constants and transaction codes given in the document are listed in Appendix.

- The suffix IN in the transaction codes implies that the request is sent from the TWS to the host end whereas OUT implies that the message is sent from the host end to TWS

Data Types Used

Data Type	Size in Bytes	Signed/ Unsigned
CHAR	1	Signed
UINT	2	Unsigned
SHORT	2	Signed
LONG	4	Signed
DOUBLE	8	Signed and Floating Point
BIT	1 bit	NA

Message Header

Each structure is prefaced with a MESSAGE_HEADER which is an interactive header. Some data in the header are fixed whereas some data are variable and set differently for each transaction code. The structure of the Message Header is as follows:

Table 1 MESSAGE HEADER

Structure Name	MESSAGE HEADER		
Packet Length	38 bytes		
Field Name	Data Type	Size in Byte	Offset
Reserved	CHAR	2	0
LogTime	LONG	4	2
AlphaChar [2]	CHAR	2	6
TransactionCode	SHORT	2	8
ErrorCode	SHORT	2	10
TimeStamp [8]	CHAR	8	12
TimeStamp1 [8]	CHAR	8	20
TimeStamp2 [8]	CHAR	8	28
MessageLength	SHORT	2	36

The fields of Message Header are described below.

Field Name	Description
LogTime	This field should be set to zero while sending messages.
AlphaChar	This field should be set to the first two characters of Symbol if the structure contains Symbol and Series; otherwise it should be set to blank.
TransactionCode	Transaction message number. This describes the type of message received or sent.
ErrorCode	This field should be set to zero while sending messages to the host. In the messages coming from the host, this field describes the type of error. Refer to *List of Error Codes* in Appendix
TimeStamp	This field should be set to numeric zero while sending to the host. This is used in host end.
TimeStamp1	This field should be set to numeric zero while sending. This is the time the message arrives at the trading system host. In TimeStamp1, time is sent in jiffies from host end. This 8 byte data needs to be typecasted as first four byte into double variable and typecast the other four byte into another double variable. These values need to be used while requesting message area download in the same order

Field Name	Description
TimeStamp2	This field should be set to numeric zero while sending to the host. For messages coming from the host, this field contains the value 0.
MessageLength	This field should be set to the length of the entire message, including the length of message header while sending to host.

Broadcast Process Header

The broadcast messages like market open, market close, market in pre-open are prefaced with BCAST_HEADER. Some fields in the header are fixed. The remaining fields are variable and set differently for each transaction code. The structure of the BCAST_HEADER is as follows:

Table 2   BCAST_HEADER

Structure Name	BCAST_HEADER		
Packet Length	38 bytes		
Field Name	Data Type	Size in Byte	Offset
Reserved	CHAR	2	0
LogTime	LONG	4	2
AlphaChar [2]	CHAR	2	6
TransactionCode	SHORT	2	8
ErrorCode	SHORT	2	10
BCSeqNo	LONG	4	12
Reserved	CHAR	4	16
TimeStamp2 [8]	CHAR	8	20
Reserved3 [8]	CHAR	8	28
MessageLength	SHORT	2	36

Field Name	Description
LogTime	This field should be set to zero while sending to host end. For messages sent from host end this field contains the time when the message was generated by the trading system host.
AlphaChar	This field is set to the first two characters of Symbol if the structure contains Symbol and Series; otherwise it is set to blank.

Field Name	Description
TransactionCode	This field contains the transaction message number. This describes the type of message received or sent.
ErrorCode	This field contains the error number which describes the type of error. Refer to *List of Error Codes* in Appendix.
BCSeqNo	This field contains BCAST Sequence number for Ericcson switch.
TimeStamp2	This field contains the time when message is sent from the host.
MessageLength	This field is set to the length of the entire message, including the length of the message header.

Note: BCAST_HEADER is prefaced with a system header which is of eight bytes.

Error Message

When the Error Code in the Message Header is not zero, ERROR RESPONSE is sent. The Error Message will describe the error received. The structure is as follows:

Table 3 ERROR_RESPONSE

Structure Name	ERROR_RESPONSE		
Packet Length	178 bytes		
Field Name	Data Type	Size in Byte	Offset
MESSAGE_HEADER (Refer Table 1)	STRUCT	38	0
SEC_INFO(Refer Table 3.1)	STRUCT	12	38
Error message[128]	CHAR	128	50

Table 3.1 SEC_INFO

Structure Name	SEC_INFO		
Packet Length	12 bytes		
Field Name	Data Type	Size in Byte	Offset
Symbol	CHAR	10	0
Series	CHAR	2	10

Field Name	Description
Symbol	This field should contain the symbol of a scheme.
Series	This field should contain the series of a scheme.

Field Name	Description
Symbol	This field should contain the symbol of a scheme.
Series	This field should contain the series of a scheme.
ErrorMessage	Stores the error message. Refer to *List of Error Codes* in Appendix.

Chapter 3   Connection Layer (CL)

Introduction

The current TAP layer to which the member applications used to connect is being discontinued. NNF applications need not connect to the TAP service running in their environment. Instead the member NNF applications will have to connect to the new connection layer of MFSS host end application directly using TCP/IP. There will be no change in the packet structure and message flow using invitation messages. The protocol and message flow required to be implemented for communication through CL is explained in detail in following sections.

Diagrammatic Representation
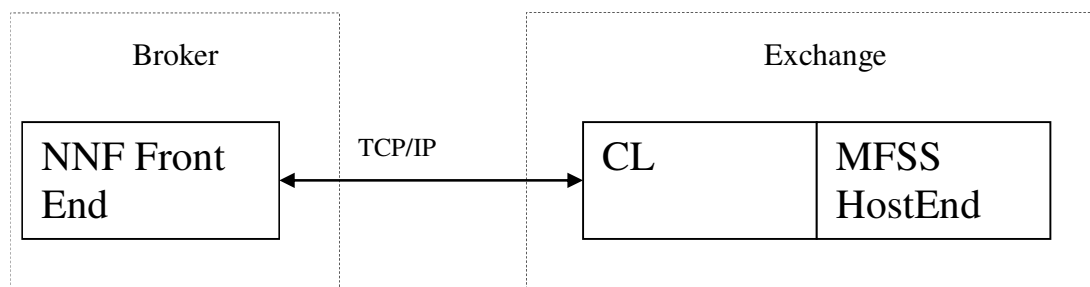
Interactive Channel for IP Implementation

TCP/IP communication protocol shall be used between NNF and CL.

CL Protocol Details

TCP/IP Connectivity between NNF system and CL

Guidelines for TCP/IP connectivity (Windows based) between NNF and CL are as follows

1. Type of the socket to be used is SOCK_STREAM
2. Address family for the socket is PF_INET
3. Front-End establishes socket connection to CL.
4. CL accepts front-end socket connection
5. Revc () function will be called to receive data packets from CL.
6. Send () function will be called to send data packets to CL.

7. Pragma pack (2) to be used for all structures flowing between Front-End and CL.

8. It is recommended to disable Nagle's algorithm.

Specification for TCP/IP Connectivity between NNF and CL

SET socket type = SOCK_STREAM
SET socket address family = PF_INET
CREATE socket using above options
SET no. of bytes to be received and no. of bytes to be sent at SOL_SOCKET   level
SET socket option to TCP_NODELAY at IPPROTO_TCP
SET remote address of host in AF_INET address family
SET remote port id for connection with CL
WAIT for events of the type FD_READ or FD_CLOSE
IF the event is FD_CLOSE then
        CONNECTION is lost
ELSEIF the event is FD_READ then
        RECEIVE the packet and process it
        WAIT for invitation packet

For non Windows based systems, use equivalent parameters in the above steps.

Setting TCP Keep-alive parameters
In order to detect abrupt network disconnection between CL and NNF, it is required to enable TCP Keep-alive option in NNF application. This can be done using following

Steps:

1. After TCP socket is created, NNF application has to set SO_KEEPALIVE option
        of the socket at SOL_SOCKET level.
2. Also, following Keep-alive parameters should be set in the Operating System on
        which NNF is installed
                a. Keep Alive Time: 20 seconds
                b. Number of Keep Alive Retries: 5
                c. Keep Alive Interval: 2 seconds

Packet structure for communication between CTCL and CL

This structure is applicable to all messages that flow between NNF and Host through CL.

Packet Format

Length (2 bytes)	Sequence number (4 bytes)	Checksum(MD5) for Message data (16 bytes)	Message Data (Variable length)

Version 2.24

- Max length will be the predefined value of 1304 bytes.
  Length = size of length field (2 bytes) +

  size of sequence number field (4 bytes) +
  size of the checksum field (16 bytes) +
  size of Message data (variable number of bytes as per the transcode).

- Sequence number will start from 1 and will be incremented for every packet.
- Message data will be of variable length and comprises of 38 bytes of header + variable sized data buffer as per transcode being sent.
- The checksum algorithm used will be MD5. Checksum is applied only on the Message data field and not on the entire packet.
- For more details on MD5 refer: **RFC** 1321 (rfc1321) - The **MD5** Message-Digest Algorithm (http://www.faqs.org/rfcs/rfc1321.html)

Packet Validation

Validation will be done for all requests flowing between CL and Front-End.
Validation will be done through the combination of Checksum, Sequence Number and length field.

Request Processing by CL

Before sending the request to CL, Front-End will have to generate a sequence number and checksum value. All the requests being sent from Front-End will be sent in the format described above.

If validation of sequence number, checksum value & length will fail at CL end, CL will disconnect the socket connection.

Response Processing by NNF software

On receiving the response from CL, NNF software is expected to validate sequence number, checksum value & length field.

Sequence number must be in sequential order. For any fresh connection the number should start from 1. On reaching the maximum limit of the data type of the sequence number, the numbers should be reset to 1. Checksum field and the checksum recalculated on the data field must match. Length field must be less than or equal to 1024.

If any one of these validations fails, the Front-End needs to drop the connection and reestablish a fresh connection**.**

Message flow between NNF and CL

Flow Control Mechanism

Packet flow between CL and Front-End will be controlled using Flow Control Mechanism. CL will send an '**Invitation Packet'** to Front-End on establishing a fresh connection.

Number of requests specified in Invitation Packet will be the maximum limit for requests which will be allowed to be sent to CL from Front-End.

After the front-end has utilized the invitation count fully, the CL will send the next invitation packet. Only on receiving the next invitation, the front-end is expected to send subsequent requests.

Invitation Packet Structure

Table 4 INVITATION MESSAGE

Structure Name	INVITATION_MESSAGE		
Packet Length	40 bytes		
Transaction Code	INVITATION_MESSAGE (15000)		
Field Name	**Data Type**	**Size in Byte**	**Offset**
Message Header (Refer to Table1 in Chapter 2)	STRUCT	38	0
InvitationCount	SHORT	2	38

Field Name	Description
TransactionCode	The transaction code is INVITATION_MESSAGE (15000).
Invitation Count	Maximum number of requests which will be allowed to be sent to CL from Front-End. This is an output field from the CL.

Note:

In the invitation packet, the following fields are to be used

1. Transaction Code field
2. Message length field
3. Invitation Count Field

Other of the fields of this packet is reserved and are to be ignored while processing.

Exception handling for invitation packet

In case of any exception while processing the 'invitation packet' the connection should be dropped. A new connection needs to be established by the front end

Chapter 4   Logon Process

Introduction

This section describes how a trader logs on to the trading system. It covers the log-on request and

the system responses. This section also describes the download of the updated information on

the schemes, categories and the status of the markets. It covers the structures and field descriptions of System Information Download, Local Database Download and Message Download.

The process by which a trader logs on to the trading system is called Logon Process. The trader, after issuing a sign-on request, waits for the system response. The response could be a successful logon or an error message.

Order of Events to Be Followed During Logon and Logoff

The following sequence explains the order in which transaction codes are sent and received during log-on process.

Sequence No	Transaction Code	Sent By	Received By
1	SIGN_ON_REQUEST_IN (2300)	TWS	Host End
2	SIGN_ON_REQUEST_OUT (2301)	Host End	TWS
3	SYSTEM_INFORMATION_IN (1600)	TWS	Host End
4	SYSTEM_INFORMATION_OUT (1601)	Host End	TWS
5	UPDATE_LOCALDB_IN (7300)	TWS	Host End
6	UPDATE_LOCALDB_HEADER (7307)	Host End	TWS
7	UPDATE_LOCALDB_DATA (7304)	Host End	TWS
8	UPDATE_LOCALDB_TRAILER (7308)	Host End	TWS
Sequence No	Transaction Code	Sent By	Received By
9	DOWNLOAD_REQUEST (7000)	TWS	Host End
10	HEADER_RECORD (7011)	Host End	TWS
11	MESSAGE_RECORD (7021)	Host End	TWS
12	TRAILER_RECORD (7031)	Host End	TWS

The following sequence explains the order in which the transaction codes are sent and received during log-off process.

Sequence No	Transaction Code	Sent By	Received By
1	SIGN_OFF_REQUEST_IN (2320)	TWS	Host End
2	SIGN_OFF_REQUEST_OUT (2321)	Host End	TWS

Logon Request

When the user wants to establish an interactive circuit with the host, he sends this request. The structure for this request is as follows:

Table 5 SIGNON REQUEST

Structure Name	SIGNON REQUEST		
Transaction code	SIGN_ON_REQUEST_IN (2300)		
Packet Length	182 bytes		
Field Name	Data Type	Size in Byte	Offset
MESSAGE_HEADER(Refer Table 1)	STRUCT	38	0
UserId	SHORT	2	38
Password [8]	CHAR	8	40
NewPassword [8]	CHAR	8	48
TraderName [26]	CHAR	26	56
LastPasswordChangeDate	LONG	4	82
BrokerId [5]	CHAR	5	86
Reserved1	CHAR	1	91
BranchId	SHORT	2	92
VersionNumber	LONG	4	94
Batch2StartTime	LONG	4	98
HostSwitchContext	CHAR	1	102
Colour [50]	CHAR	50	103
Reserved2	CHAR	1	153
UserType	SHORT	2	154
SequenceNumber	DOUBLE	8	156
WsClassName [14]	CHAR	14	164
BrokerStatus	CHAR	1	178
Reserved3	CHAR	1	179
BROKER_ELIGIBILITY_PER_MKT (Refer to Table 5.1& Table 5.2)	STRUCT	2	180

For Small Endian Machines:

Table 5.1 BrokerEligibilityPerMarket

Structure Name	BROKER_ELIGIBILITY_PER_MKT		
Packet Length	2 bytes		
Field Name	Data Type	Size	Offset
Reserved	BIT	4	0
Reserved	BIT	1	0
Spot market	BIT	1	
Reserved	BIT	1	0
Reserved	BIT	1	0
Reserved	BIT	8	1

For Big Endian Machines:

Table 5.2 BrokerEligibilityPerMarket

Structure Name	BROKER_ELIGIBILITY_PER_MKT		
Packet Length	2 bytes		
Field Name	Data Type	Size	Offset
Reserved	BIT	1	0
Reserved	BIT	1	0
Spot market	BIT	1	0
Reserved	BIT	1	0
Reserved	BIT	4	0
Reserved	BIT	8	1

Field Name	Description
TransactionCode	The transaction code is SIGN_ON_REQUEST_IN (2300).
UserId	This field should contain User ID of user/broker. This field accepts numbers only.
Password	This field should contain the password entered by the user. A combination of alphabet, numbers and special characters are allowed in the password. The user should enter the password for a successful Logon. When the user logs on for the first time the default password provided by NSE must be entered and the

Field Name	Description
	password should be changed by entering a new password.
NewPassword	This field should contain the new password entered by the user. This field should be entered only when the user wishes to change the password or the password has expired. Otherwise this field should be blank. The New Password should be entered along with the old password in the Password field. While logging on the system for the first time, the default password provided by NSE must be changed. the new password entered will undergo following new validations : • The length of password should be of exact 8 characters. • The password should contain atleast 1 upper case letter, 1 lower case letter, 1 numeral and 1 special characters from the list (@ # $ % & * / \). • New password must be different from previous 5 passwords. • User Id shall be locked after 5 invalid login attempts. • User shall not be allowed to set the default password as new password.
TraderName	This field when received from the host contains the user's name. This field should be sent to host as blanks.
LastPassword ChangeDateTime	This field should be set to numerical zero while log on.
BrokerId	This field should contain the trading member ID.
BranchId	This field should contain the Branch ID to which the broker belongs.
VersionNumber	This field should contain the version number of the trading system.

25

Field Name	Description
	It must be in the following format: VERSION.RELEASE.SUB_RELEASE (For example, 01.00.01)
Batch2StartTime	This field should be set to numerical zero.
HostSwitchContext	This field should be set to blank.
Colour	This field should be set to blank.

UserType	This field indicates the type of user. It can take one of the following values when it is sent from the host:
	    '0' denotes Dealer
	    '4' denotes Corporate Manager
	    '5' denotes Branch Manager
	This field should be set to '0' while sending to the host.

SequenceNumber	This field should be set to numerical zero while sending the request to host.
WorkstationNumber	The network ID of the workstation should be provided. This is a seven digit number. The first five digits are fixed by the Exchange and represent the various ports / switch locations. The last two digits denote the user's PC - ID. It must be any number other than '00'.
BrokerStatus	This field should be set to blank.
BrokerEligibilityPer Market	This field should be set to numerical zero.

Logon Response

The response will either be **Confirmation** or **Logon Error**.

Logon Confirmation Response

A successful logon results in the Logon Confirmation Response. The following structure is sent back:

Table 6 SIGNON REQUEST

Field Name	Data Type	Size in Byte	Offset
Structure name	SIGNON_REQUEST		
Transaction code	SIGN_ON_REQUEST_OUT(2301)		
Packet Length	182 bytes		
Field Name	Data Type	Size in Byte	Offset
MESSAGE_HEADER (Refer Table 1)	STRUCT	38	0
UserId	SHORT	2	38
Password [8]	CHAR	8	40
NewPassword [8]	CHAR	8	48
TraderName [26]	CHAR	26	56
LastPasswordChangeDate	LONG	4	82
BrokerId [5]	CHAR	5	86
Reserved1	CHAR	1	91
BranchId	SHORT	2	92
VersionNumber	LONG	4	94
End Time	LONG	4	98
Reserved2 [52]	CHAR	52	102
UserType	SHORT	2	154
SequenceNumber	DOUBLE	8	156
Reserved3	CHAR	14	164
BrokerStatus	CHAR	1	178
Reserved4	CHAR	1	179
BrokerEligibilityPerMarket (Refer Table 6.1 for Small Endian machines and Table 6.2 below for Big Endian machines)	STRUCT	2	180

For Small Endian Machines:

Table 6.1 BrokerEligibilityPerMarket

Structure Name	BROKER_ELIGIBILITY_PER_MKT
Packet Length	2 bytes

Field Name	Data Type	Size	Offset
Reserved	BIT	4	0
Reserved	BIT	1	0
Spot market	BIT	1	
Reserved	BIT	1	0
Reserved	BIT	1	0
Reserved	BIT	8	1

For Big Endian Machines:

Table 6.2 BrokerEligibilityPerMarket

Structure Name	BROKER_ELIGIBILITY_PER_MKT		
Packet Length	2 bytes		
Field Name	Data Type	Size	Offset
Reserved	BIT	1	0
Reserved	BIT	1	0
Spot market	BIT	1	0
Reserved	BIT	1	0
Reserved	BIT	4	0
Reserved	BIT	8	1

Field Name	Description
TransactionCode	The transaction code is SIGN_ON_REQUEST_OUT (2301).
LogTime	The current time at the trading system is sent back as number of seconds since midnight of January 1, 1980.
UserId	This field contains the ID of the user.
TraderName	This field contains the user name.
LastPassword ChangeDate	This filed contains the last date time when the password was changed.
BrokerId	This field contains the Trading Member ID.
BranchId	This field contains the branch ID of the particular user.
Version No	This field contains the version number of the trading system
EndTime	This field contains the time the markets last closed and is sent as the number of seconds since midnight of January 1, 1980. If

	this time is different from the time sent in an earlier log on, all orders, trades and messages for this trader must be deleted from the Local Database.
UserType	This field contains the type of user who is logging on: • '0' – Dealer • '4' – Corporate Manager • '5' – Branch Manager
SequenceNumber	This field contains the time when the markets closed the previous trading day.
BrokerStatus	This field contains the current status of the broker: • 'S' for Suspended • 'A' for Active • 'D' for Deactivated
BrokerEligibility PerMarket	This structure specifies the markets that are allowed for the trading member. The trading member is eligible to enter orders in the markets that are set to 1.

Logon Error

In case of any error, the structure returned is:

ERROR RESPONSE (Refer to *Error Message* in Chapter 2)

Field Name	Description
TransactionCode	The transaction code is SIGN_ON_REQUEST_OUT (2301).
ErrorCode	This contains the error number. If the version number is not the same as at the host end, the version number at the host can be extracted from Error_Message in ERROR_RESPONSE (8 bytes from location 95 in the string). The format of it will be VV.RR.SS. The version number at the front end should be set to VVRRSS. Refer to *List of Error Codes* in Appendix.

System Information Download

The current status of the markets and the values of global variables are downloaded to the trader in response to *system information* request.

System Information Request

This request can be sent only if the user has logged on successfully. The format of the request is as follows:

Table 7 SYSTEM_INFO_REQ

Structure name	SYSTEM_INFO_REQ		
Transaction code	SYSTEM_INFORMATION_IN (1600)		
Packet Length	38 bytes		
Field Name	Data Type	Size in Byte	Offset
MESSAGE_HEADER (Refer Table 1)	STRUCT	38	0

Field Name	Description
TransactionCode	The transaction code is SYSTEM_INFORMATION_IN (1600).

System Information Response

The following structure is returned as a response to the system information request:

Table 8 SYSTEM_INFO_DATA

Structure Name	SYSTEM_INFO_DATA		
Transaction code	SYSTEM_INFORMATION_OUT (1601)		
Packet Length	84 bytes		
Field Name	Data Type	Size in Byte	Offset
MESSAGE HEADER,(Refer Table 1)	STRUCT	38	0
MARKET_STATUS,(Refer Table 8.1 below)	STRUCT	8	38
Reserved9	LONG	4	46
Reserved4	SHORT	2	50
Reserved5	SHORT	2	52
Reserved6	SHORT	2	54
Reserved7	SHORT	2	56
Reserved8	SHORT	2	58

Reserved9	SHORT	2	60	**Table 8.1**
Reserved10	SHORT	2	62	
Reserved11	SHORT	2	64	
TerminalIdleTime	SHORT	2	66	
Reserved12	LONG	4	68	
Reserved13	LONG	4	72	
Reserved14	SHORT	2	76	
STOCK_ELIGIBLE_INDICATORS,(Refer Table 8.2 & Table8.3 below)	STRUCT	2	78	
Reserved15	SHORT	2	80	
InqTimer	SHORT	2	82	

MARKET STATUS

Structure Name	MARKET_STATUS		
Packet Length	8 bytes		
Field Name	Data Type	Size in Byte	Offset
Reserved1	SHORT	2	0
Reserved2	SHORT	2	2
SPOT	SHORT	2	4
Reserved3	SHORT	2	6

For Small Endian Machines:

Table 8.2 STOCK ELIGIBLE INDICATORS

Structure Name	STOCK_ELIGIBLE_INDICATOR		
Packet Length	2 bytes		
Field Name	Data Type	Size	Offset
Reserved	BIT	5	0
Reserved	BIT	1	0
Reserved	BIT	1	0
Reserved	BIT	1	0
Reserved	BIT	8	1

For Big Endian Machines:

Table 8.3 STOCK ELIGIBLE INDICATORS

Structure Name	STOCK_ELIGIBLE_INDICATOR		
Packet Length	2 bytes		
Field Name	Data Type	Size	Offset
Reserved	BIT	1	0
Reserved	BIT	1	0
Reserved	BIT	1	0
Reserved	BIT	5	0
Reserved	BIT	8	1

Field Name	Description
TransactionCode	The transaction code is SYSTEM_INFORMATION_OUT (1601).
MarketStatus	This field contains a value assigned for market status are: • '0' if it is Preopen • '1' if it is Open • '2' if it is Closed • '3' if it is Preopen Ended
TerminalIdleTime	This field contains the idle time of the TWS terminal.
InqTimer	This field contains the inquiry time of the terminal.

Update Local Database Download

The list of updated schemes and categories are downloaded in response to *update local database* request.

Update Local Database Request

This message is sent to request the host end to update the local database at the front end. The structure sent is as follows:

Table 9 UPDATE_LOCAL_DATABASE

Structure Name	UPDATE_LOCAL_DATABASE		
Transaction code	UPDATE_LOCAL_DB_IN (7300)		
Packet Length	98 bytes		
Field Name	Data Type	Size in Byte	Offset
MESSAGE_HEADER(Refer Table 1)	STRUCT	38	0
LastUpdateSecurityTime	LONG	4	38
LastUpdateCategoryTime	LONG	4	42
LastUpdateSIPTime	LONG	4	46
Reserved1	CHAR	1	50
Reserved2	CHAR	1	51

MARKET_STATUS(Refer Table 8.1)	STRUCT	8	52
Reserved[10]	CHAR	10	60
Reserved[2]	CHAR	2	70
Reserved3[12]	CHAR	12	72
Reserved4	DOUBLE	8	84
Reserved5	LONG	4	92
Reserved6	SHORT	2	96

Field Name	Description
TransactionCode	The transaction code is UPDATE_LOCALDB_IN (7300).
LastUpdateSecurityTime	This field should contain the time when the scheme information was last updated. This field is for each scheme for which information is downloaded. Further download requests can use the latest time to get updated information on the securities. Setting this time to zero results in complete download.
LastUpdateCategoryTime	This field should contain the time when the category information was updated. This field is set for each category for which information is downloaded. Further download requests can use the latest time to get updated information on the categories. Setting this time to zero results in complete download.
LastUpdateSIPTime	This field should contain the time when the SIP master information was updated. This field is set for each SIP master details for which information is downloaded. Further download requests can use the latest time to get updated information on the SIP details. Setting this time to zero results in complete download.
MarketStatus	This should be the market status received in the previous response. The market status fields are accepted as input to verify if the user has the latest system information. If the user has the latest market status information, the update of the information on the schemes and the categories from the specified time are downloaded. If the status information specified is not the latest, the user is updated on the market status alone. Upon receiving the updated market information, the user can request for the updated scheme status, scheme, and category information.

Update Local Database Response

The response will be either the database download, or a partial system information download.

The latter will occur if the trader does not have the latest market status.

Partial System Information Response

This is returned if the market status sent in the previous message is not the same at the host end or the markets are opening. In this case the market status at the host end is sent back in the MARKET STATUS as 'wait till markets are open'. The following structure is returned:

SYSTEM INFORMATION DATA (Refer to *System Information Response* in Chapter 4)

Field Name	Description
TransactionCode	The transaction code is PARTIAL_SYSTEM_INFORMATION (7321).
MarketStatus	This contains the latest market status.

Update Local Database Download

The download comprises of a header, data and the trailer. Each updated scheme information, security status, and category information will be sent as a separate message.

Update Local Database Header

This is sent only to indicate that a signon download is going to commence. There is no additional data sent. The header is sent in the following format:

Table 10 UPDATE_LDB_HEADER

Structure Name	UPDATE_LDB_HEADER		
Transaction code	UPDATE_LOCALDB_HEADER (7307)		
Packet Length	40 bytes		
Field Name	Data Type	Size in Byte	Offset
MESSAGE_HEADER(Refer Table 1)	STRUCT	38	0
Reserved	CHAR	2	38

Field Name	Description
TransactionCode	The transaction code is UPDATE_LOCALDB_HEADER (7307).

Update Local Database Data

The actual data is sent wrapped in another header. The outer header indicates that this message

is part of the Update Local Database Data. The inner header indicates the type of data received.

The structure is as follows:

Table 11 MESSAGE HEADER

Structure Name	MESSAGE HEADER		
Packet Length	72 to 1024 bytes		
Field Name	Data Type	Size in Byte	Offset
MESSAGE_HEADER(Refer Table 1)InnerHeader	STRUCT	38	0
Data[948]	CHAR	948	38

Field Name	Description
TransactionCode	The transaction code is UPDATE_LOCALDB_DATA (7304).
InnerTransactionCode	The transaction codes sent are • BCAST_SECURITY_MSTR_CHG (7305). It is determined by NSE-Control whether to send this or not. (Refer to *Change in Security Master* in Chapter 7) • BCAST_SECURITY_STATUS_CHG (7320). This transaction code is sent when the status of the stock is different from the expected status at the host end (Refer to *Change of Security Status* in Chapter 7) • BCAST_CAT_MSTR_CHG (7309). If there is any change in the category master after the time specified by the Last Update Category Time, it is downloaded.(Refer to *Category Master Download* in Chapter 4) • BCAST_SIP_MSTR_CHG (7209). If there is any change in the SIP master after the time specified by the Last Update SIP Time, it is downloaded.(Refer to *SIP Master Download* in Chapter 4)

Category Master Download

Category master information is downloaded to TWS based on the Last Update Category Time received in Update Local database request. The structure is as follows:

Table 12 CATEGORY_UPDATE_INFORMATION

Structure Name	CATEGORY_UPDATE_INFORMATION		
Transaction code	BCAST_CAT_MSTR_CHG (7309)		
Packet Length	72 bytes		
Field Name	Data Type	Size in Byte	Offset
MESSAGE_HEADER (Refer Table 1)	STRUCT	38	0
CategoryCode[5]	CHAR	5	38
CategoryName[25]	CHAR	25	43
LocalUpdateDateTime	LONG	4	68

Field Name	Description
TransactionCode	The transaction code is BCAST_CAT_MSTR_CHG (7309).
CategoryCode	This field contains the unique Category Code for each category.
CategoryName	This field contains the name of the category.
LocalUpdateDateTime	This field contains the time when the category information was changed. It is in number of seconds from January 1, 1980.

SIP Master Download

SIP master information is downloaded to TWS based on the Last Update SIP Time received in Update Local database request. The structure is as follows:

Table 13 SIP_UPDATE_INFORMATION

Structure Name	SIP_UPDATE_INFORMATION		
Transaction code	BCAST_SIP_MSTR_CHG (7209)		
Packet Length	106 bytes		
Field Name	Data Type	Size in Byte	Offset
MESSAGE_HEADER(Refer Table 1)	STRUCT	38	0
Token	SHORT	2	38
SECURITY_INFORMATION(Refer Table 13.1)	STRUCT	12	40
FrequencyNumber	SHORT	2	52
SIP PARAMETERS(Refer Table 13.2)	STRUCT	22	54
SIPFrequencyMultiple	SHORT	2	76
SIPMinimumAmount	LONG	4	78
SIPMaximumAmount	DOUBLE	8	82
SIPMultiple	SHORT	2	90
SIPMinimumTotal Amount	DOUBLE	8	92
LocalUpdateDateTime	LONG	4	100
FrequencyEligibility	CHAR	1	104
DeleteFlag	CHAR	1	105

Table 13.1 SECURITY_INFORMATION

Structure Name	SECURITY_INFORMATION		
Packet Length	12 bytes		
Field Name	Data Type	Size in Byte	Offset
Symbol[10]	CHAR	10	0
Series[2]	CHAR	2	10

Table 13.2 SIP_PARAMETERS

Structure Name	SIP PARAMETERS		
Packet Length	22 bytes		
Field Name	Data Type	Size in Bits	Offset
Periods8	BIT	1	0
Periods7	BIT	1	0
Periods6	BIT	1	0
Periods5	BIT	1	0
Periods4	BIT	1	0
Periods3	BIT	1	0
Periods2	BIT	1	0
Periods1	BIT	1	0
Periods16	BIT	1	1
Periods15	BIT	1	1
Periods14	BIT	1	1
Periods13	BIT	1	1
Periods12	BIT	1	1
Periods11	BIT	1	1
Periods10	BIT	1	1
Periods9	BIT	1	1
*The remaining periods (13 bytes) from periods 17 to periods 120 has to be interpreted in the same way as mentioned above.			
Months8	BIT	1	15
Months7	BIT	1	15
Months6	BIT	1	15
Months5	BIT	1	15
Months4	BIT	1	15
Months3	BIT	1	15
Months2	BIT	1	15
Months1	BIT	1	15
Reserved1	BIT	1	16
Reserved2	BIT	1	16
Reserved3	BIT	1	16
Reserved4	BIT	1	16
Months12	BIT	1	16
Months11	BIT	1	16
Months10	BIT	1	16
Months9	BIT	1	16
Days or dates8	BIT	1	17

Field Name	Data Type	Size in Bits	Offset
Days or dates7	BIT	1	17
Days or dates6	BIT	1	17
Days or dates5	BIT	1	17
Days or dates4	BIT	1	17
Days or dates3	BIT	1	17
Days or dates2	BIT	1	17
Days or dates1	BIT	1	17
Days or dates16	BIT	1	18
Days or dates15	BIT	1	18
Days or dates14	BIT	1	18
Days or dates13	BIT	1	18
Days or dates12	BIT	1	18
Days or dates11	BIT	1	18
Days or dates10	BIT	1	18
Days or dates9	BIT	1	18
Days or dates24	BIT	1	19
Days or dates23	BIT	1	19
Days or dates22	BIT	1	19
Days or dates21	BIT	1	19
Days or dates20	BIT	1	19
Days or dates19	BIT	1	19
Days or dates18	BIT	1	19
Days or dates17	BIT	1	19
Reserved5	BIT	1	20
Days or dates31	BIT	1	20
Days or dates30	BIT	1	20
Days or dates29	BIT	1	20
Days or dates28	BIT	1	20
Days or dates27	BIT	1	20
Days or dates26	BIT	1	20
Days or dates25	BIT	1	20
Reserved6	CHAR	8	21

Field Name	Description
TransactionCode	The transaction code is BCAST_SIP_MSTR_CHG (7209).
Token	This field contains the token number of the scheme SIP being updated. This is unique for a particular symbol-series combination.
SecurityInformation	This field contains the Symbol and Series of the scheme SIP.
FrequencyNumber	This field contains the frequency of the SIP. The values are: 1 - Weekly 2 - Monthly 3 - Quarterly 4 - Semi Anually 5 - Anually
Periods	The various Durations in months available for the SIP. The multiple selections of bits indicate that the SIP is allowed in all those durations. E; g; If the bit of Period4 is set, it means that the SIP is available for period of 4 Months.
Months	The Various month combinations in the case of Quarterly and SemiAnually frequencies or various months available in the case of Anually frequency for the SIP. **For Quarterly Months Combination:** Months1- J-A-J-O Months2 - F-M-A-N Months3- M-J-S-D **For Semi Anually Months Combination:** Months1 - J-J Months2 - F-A Months3 - M-S Months4 - A-O Months5 - M-N Months6 - J-D **For Anually Months:** Months1 - Jan Months2 - Feb Months3 - Mar Months4 - Apr Months5 – May

	Etc upto Months12 - Dec
DaysOrDates	The Various Days available in the Weekly frequency or the various dates available in the case of other frequencies. **For Weekly:** DaysOrDates1 - Mon DaysOrDates2 - Tue etc upto… DayeOrDates5 - Fri **For Other Frequencies:** DaysOrDates1- 1st DaysOrDates2- 2nd etc upto… DaysOrDates31- 31st
SIPFrequencyMultiple	This factor indicates the multiple of SIP frequency.
SIPMinimumAmount	The minimum registration amount applicable for the SIP for the corresponding frequency
SIPMaximumAmount	The maximum registration amount applicable for the SIP for the corresponding frequency
SIPMultiple	The SIP Amount multiple applicable for the SIP for the corresponding frequency
SIPMinimumTotal Amount	The minimum total registration amount inclusive of all the transactions on the SIP
LocalUpdateDateTime	This field contains the time when the category information was changed. It is in number of seconds from January 1, 1980.
FrequencyEligibility	This field indicates whether the SIP is eligible in that particular frequency or not. **Flag Value:** Y - Eligible N - Ineligible
DeleteFlag	This field indicates that corresponding SIP frequency details are deleted in the system

Update Local Database Trailer

This indicates that the download is complete. This is sent in the following format:

Table 14 UPDATE_LDB_ TRAILER

Structure Name	UPDATE_LDB_ TRAILER		
Transaction code	UPDATE_LOCALDB_TRAILER(7308)		
Packet Length	40 bytes		
Field Name	Data Type	Size in Byte	Offset
MESSAGE HEADER (Refer Table 1)	STRUCT	38	0
Reserved	CHAR	2	38

Field Name	Description
TransactionCode	The transaction code is UPDATE_LOCALDB_TRAILER (7308).

Message Download

This request is used to download the messages intended for the trader from the trading system. When the trader makes a request for message download, all the transactions of the trader and other important broadcasts are downloaded. The response consists of Header and Trailer to indicate the beginning and end of download and is similar to Update Local Database Download.

Message Download Request

This message is sent for requesting message download. The structure sent to the trading system is:

Table 15 MESSAGE DOWNLOAD

Structure Name	MESSAGE DOWNLOAD		
Transaction code	DOWNLOAD_REQUEST (7000)		
Packet Length	46 bytes		
Field Name	Data Type	Size in Byte	Offset
MESSAGE HEADER (Refer Table 1)	STRUCT	38	0
SequenceNumber	DOUBLE	8	38

Field Name	Description
TransactionCode	The transaction code is DOWNLOAD_REQUEST (7000).
SequenceNumber	This contains the time last message was received by the workstation. This can be obtained from the Time Stamp1 of the MESSAGE_HEADER. To retrieve the messages from the beginning of the trading day, this field should be set to '0' or the Sequence Number received in the logon response message.

Message Download Response

The download comprises of a header, data and the trailer. Each trader specific and broadcast message will be sent as a separate message.

Message Download Header

This is only to indicate that a message download is going to commence. There is no additional data sent. The header is sent in the following format:

MESSAGE HEADER   (Refer to *Message Header* Table 1)

Field Name	Description
TransactionCode	The transaction code is HEADER_RECORD (7011).

Message Download Data

The messages are similar to Update Local Database Data. The actual data is sent wrapped in another structure. The outer header indicates that this message is part of the Message Download Data. The inner header indicates the type of data received. The structure is shown below.

Table 16 MESSAGE HEADER

Structure Name	MESSAGE HEADER		
Transaction code	MESSAGE_RECORD (7021)		
Packet Length	76 to 1090 bytes		
Field Name	Data Type	Size in Byte	Offset
MESSAGE HEADER (Refer Table 1) InnerHeader	STRUCT	38	0
Data[1052]	CHAR	1052	38

Field Name	Description
TransactionCode	The transaction code is MESSAGE_RECORD (7021).
InnerData	Set of transaction codes are received. They include **Trader Specific Messages** • Logon / Logoff response. Refer to *Logon Process*, Chapter 4. • Interactive message sent to the user from the NSE-Control. Refer to *Unsolicited Messages*, Chapter 6. • Order entry, Modification, Cancellation responses. Refer to *Order Management*, Chapter 5. • SIP Entry / Modification, cancellation of same day and Historical SIP Cancellation. Refer to *SIP Registration Management*, Chapter 4. **Broadcast Messages** • Market Open, Market Close, Broadcast Message String, Broadcast message sent from NSE-Control. Refer to *Broadcast*, Chapter 7.

Message Download Trailer

This indicates that message download is complete. The format is as follows:

MESSAGE HEADER   (Refer to Table1 in Chapter 2)

Field Name	Description
TransactionCode	The transaction code is TRAILER_RECORD (7031).

Logoff Request

The process by which a trader quits or signs off from the trading system is called Logoff Process.

MESSAGE HEADER (Refer to Table1 in Chapter 2).

Field Name	Description

TransactionCode	The transaction code is SIGN_OFF_REQUEST_IN (2320).

Logoff Confirmation Response

When the user logs on again, the user receives a packet giving the details of when he/she logged off. The structure sent is:

MESSAGE HEADER (Refer to *Message Header* in Chapter 2)

Note: MS_SIGNOFF message is sent in the Message Header itself. The length of the packet is 38 bytes.

Field Name	Description
TransactionCode	The transaction code is SIGN_OFF_REQUEST_OUT (2321).
LogTime	This field contains the current time at the trading system is sent back as number of seconds since midnight of January 1, 1980. The time at the workstation must be synchronized with this.

On Demand SIP Registrations Download

The details of SIP registered in the MFSS TS are downloaded in response to SIP Registration Details Download Request

SIP Registration Details Download Request

This message is sent to request the host end to update the SIP registration details in the local database at the front end. The structure sent is as follows:

Table 17 SIP REGISTRATION DETAILS DOWNLOAD

Structure Name	SIP REGISTRATION DETAILS DOWNLOAD		
Transaction code	SIP INQUIRY REQUEST (1762)		
Packet Length	104 bytes		
Field Name	Data Type	Size in Byte	Offset
MESSAGE HEADER (Refer to Table1 in Chapter 2)	STRUCT	38	0
SECURITY_INFORMATION(Refer Table 17.1)	STRUCT	12	38
SIPRegistrationNumber[15]	CHAR	15	50
Reserved	CHAR	1	65

UserType	SHORT	2	66
TraderId	SHORT	2	68
BranchId	SHORT	2	70
BrokerId[5]	CHAR	5	72
ClientCode[10]	CHAR	10	77
NNFUserInfo	DOUBLE	8	87
Reserved1	DOUBLE	8	95
Reserved2	CHAR	1	103

Table 17.1 SECURITY_INFORMATION

Structure Name	SECURITY_INFORMATION		
Packet Length	12 bytes		
Field Name	Data Type	Size in Byte	Offset
Symbol[10]	CHAR	10	0
Series[2]	CHAR	2	10

Field Name	Description
TransactionCode	The transaction code is SIP INQUIRY REQUEST (1762).
SecurityInformation	This field contains the Symbol and Series of the scheme SIP.
SIPRegistration Number	This field contains the registration number assigned to the SIP. Optional (If populated, used as a filter key)
UserType	The type of the user.
TraderId	This field should contain the ID of the user. This field accepts only numbers. Mandatory field and it should be equal to MESSAGE_HEADER.trader_id (Trader_id consists in Reserved field of MESSAGE HEADER).
BranchId	This field should contain the ID of the branch of the particular broker.
BrokerId	This field should contain the trading member ID.
ClientCode	The unique code of the client under that dealer. Optional (If populated, used as a filter key)
NNFUserInfo	The user info of CTCL member. Optional (If populated, used as a filter key)

SIP Registration Details Download Header

This is sent only to indicate that a SIP registration details download is going to commence. There

is no additional data sent. The header is sent in the following format:

Table 18 SIP REGISTRATION DETAILS DOWNLOAD_HEADER

Structure Name	SIP REGISTRATION DETAILS DOWNLOAD_HEADER		
Transaction code	SIP INQUIRY RESPONSE HEADER (1764)		
Packet Length	40 bytes		
Field Name	Data Type	Size in Byte	Offset
MESSAGE HEADER (Refer to Table1 in Chapter 2)	STRUCT	38	0
Reserved	CHAR	2	38

Field Name	Description
TransactionCode	The transaction code is SIP INQUIRY RESPONSE HEADER (1764).

**Note: Header is sent without any validations on the request packet. However, if
the request is invalid due to any condition, the data and trailer are not sent. It is to be noted
that header is always sent even though the request is invalid.**

SIP Registration Details Download Data

The SIP Registration Details Download is sent as data download.

The structure is as follows:

Table 19 SIP REGISTRATION DETAILS DOWNLOAD DATA

Structure Name	SIP REGISTRATION DETAILS DOWNLOAD DATA		
Transaction code	SIP INQUIRY DATA RESPONSE (1763)		
Packet Length	1032 bytes		
Field Name	Data Type	Size in Byte	Offset
MESSAGE HEADER (Refer to Table1 in Chapter 2)	STRUCT	38	0
SECURITY_INFORMATION(Refer Table 19.1)	STRUCT	12	38
CategoryCode[5]	CHAR	5	50
CancelFlag	CHAR	1	55
ApplNumber [10]	CHAR	10	56
BuySell	SHORT	2	66
PurchaseType	SHORT	2	68

Field Name	Data Type	Size in Byte	Offset
Amount	DOUBLE	8	70
Quantity	DOUBLE	8	78
DepositorySettlement	CHAR	1	86
DepositoryID[8]	CHAR	8	87
DepositoryClientID[16]	CHAR	16	95
DepositoryCode[8]	CHAR	8	111
FolioNumber[16]	CHAR	16	119
CLIENT INFO (Refer Table 19.2)	STRUCT	761	135
BranchId	SHORT	2	896
TraderId	SHORT	2	898
BrokerId[5]	CHAR	5	900
SIPRegistrationNumber[15]	CHAR	15	905
SIPRegisteredDate	LONG	4	920
SIPSameDayFlag	CHAR	1	924
Reserved	CHAR	1	925
SIPTrancheNumber	LONG	4	926
SIPFrequency	SHORT	2	930
SIPPeriod	SHORT	2	932
SIPMonth	SHORT	2	934
SIPDay_Date	SHORT	2	936
SIPNextInstallmentDate	LONG	4	938
SIPEndDate	LONG	4	942
SIPCancelledDate	LONG	4	946
SIPLastUpdateDateTime	LONG	4	950
NnfUserInfo	DOUBLE	8	954
OrderNumber	DOUBLE	8	962
BookType	SHORT	2	970
EntryDateTime	LONG	4	972
LastModified	LONG	4	976
ST_ORDER_FLAGS(Refer Table 19.3 & Table 19.4)	STRUCT	2	980
Suspended	CHAR	1	982
AMCCode[3]	CHAR	3	983
AMCSchemeCode[10]	CHAR	10	986
RTAgentCode[10]	CHAR	10	996
RTSchemeCode[5]	CHAR	5	1006
TotalRedemption	CHAR	1	1011
DividendMechanism	CHAR	1	1012
EchoBack[4]	CHAR	4	1013
SubBrokerCode [15]	CHAR	15	1017

Table 19.1 SECURITY_INFORMATION

Structure Name	SECURITY_INFORMATION		
Packet Length	12 bytes		
Field Name	Data Type	Size in Byte	Offset
Symbol[10]	CHAR	10	0
Series[2]	CHAR	2	10

Table 19.2 CLIENT INFO

Structure Name	CLIENT INFO		
Packet Length	bytes		
Field Name	Data Type	Size in Byte	Offset
ModeOfHolding [2]	CHAR	2	0
ClientCode[3][10]	CHAR	30	2
ClientName1[70]	CHAR	70	32
ClientName2[35]	CHAR	35	102
ClientName3[35]	CHAR	35	137
PanNumber[3][10]	CHAR	30	172
KYCCompliant[3]	CHAR	3	202
Occupation	SHORT	2	205
TaxStatus	SHORT	2	207
AddressLine[3][40]	CHAR	120	209
City[35]	CHAR	35	329
State[2]	CHAR	2	364
Gender	CHAR	1	366
PINCode	LONG	4	367
PhoneOffice[8]	CHAR	8	371
PhoneResidence[8]	CHAR	8	379
MobileNumber[10]	CHAR	10	387
EmailAddress[50]	CHAR	50	397
BankName[40]	CHAR	40	447
BankBranch[40]	CHAR	40	487
BankCity[35]	CHAR	35	527
AccountNo[40]	CHAR	40	562
NEFTCode[11]	CHAR	11	602
BankAccountType[10]	CHAR	10	613
StatementCommunicationMode	CHAR	1	623
RESERVED	CHAR	1	624
PayoutMech	SHORT	2	625
DateOfBirth[8]	CHAR	8	627
GuardianName[35]	CHAR	35	635

GuardianPANno[10]	CHAR	10	670
NomineeName[40]	CHAR	40	680
NomineeRelation[40]	CHAR	40	720
Reserved	CHAR	1	760

For Small Endian Machines:

Table 19.3 ST_ORDER_FLAGS

Structure Name	ST_ORDER_FLAGS		
Packet Length	2 bytes		
Field Name	Data Type	Size in Bits	Offset
Reserved	CHAR	8	0
Reserved1	BIT	5	1
Modified	BIT	1	1
Reserved2	BIT	2	1

For Big Endian Machines:

Table 19.4 ST_ORDER_FLAGS

Structure Name	ST_ORDER_FLAGS		
Packet Length	2 bytes		
Field Name	Data Type	Size in Bits	Offset
Reserved	CHAR	8	0
Reserved1	BIT	2	1
Modified	BIT	1	1
Reserved2	BIT	5	1

Field Name	Description
TransactionCode	The transaction code is SIP INQUIRY DATA RESPONSE (1763).
Security Information	▪ This structure contains the following fields: • Symbol • Series.

	▪ The Symbol field should contain the name of the scheme. ▪ The series field identifies the type of the scheme.
CategoryCode	▪ The category to which the scheme belongs to. The category code should be populated with the corresponding code present in scheme master download, while sending order entry request.
CancelFlag	The flag will be set for the cancelled orders. • 'C' – Cancelled SIP • 'H' – Historical SIP Cancellation
ApplNumber	The application number of that order. It is optional.
BuySell	This field should specify whether the order is a buy or sell. It should take one of the following values. • '1' for Buy order • '2' for Sell order
PurchaseType	Always shows '3'.
Amount	The field specifies the amount for a subscription or redemption order.
Quantity	For a subscription order quantity should be zero. For a redemption order the field specifies the quantity of that order.
DepositorySettlement	For a scheme: • If the depository settl flag (SecAllowDep) is set and the mandatory depository flag (SecDepMandatory) is not set, then this field can be set to either Y or N. • If the depository settl flag is not set and the mandatory depository flag is set, then this field can be set to Y. • If the depository settl flag is not set and the mandatory depository flag is not set, then this field should be set to N.
DepositoryID	• If Depository settlement is Y, This field should contain the depository id. • If Depository settlement is N, This field should be blank. • For NSDL: The Depository ID should be of length 8 digits.

	• For CDSL: The field should be blank.
DepositoryClientID	• If Depository settlement is Y, This field should contain the depository client id. • If Depository settlement is N, This field should be blank. • For NSDL: The Depository Client ID should be of length 8 digits. • For CDSL: The Depository Client ID should be of length 16 digits.
DepositoryCode	• The field should be set as NSDL or CDSL for depository purchase and redemption of the scheme based upon the scheme depository code. • For orders of non depository scheme, the field should be blank
FolioNumber	• If Depository settlement is Y, This field should be blank. • If Depository settlement is N, This field should be blank for fresh purchase and field should contain the folio number for additional purchase. • The folio number length should not be greater than the folio number length applicable for the scheme.
ModeOfHolding	The field specifies the mode of holding. It should take one of the following values. • SI for single • JO for Joint • AS for Anyone/Survivor
ClientCode	The field should contain the Client Code. For Physical purchase: • For SI mode of holding, Client Code 1 should be sent. • For JO/AS mode of holding, Client code 1,2 and 3 (if entered) has to be sent • The client code 1, 2 and 3 should not be same. For Depository purchase:

	• For SI mode of holding, the CD code is sent in client code 1. Client code 2 and 3 should be sent as blank. • For JO/AS mode of holding, the CD code is sent in client code 1 and client code 2 and 3 should be sent as blank. • The client code 2 and 3 should be null.
ClientName	• The field should contain the Client name. • For SI mode of holding, Client Name 1 should be sent. • For JO/AS mode of holding, Client Name 1,2 and 3 (if entered) has to be sent
KYCCompliant	The field should contain the KYC compliant. For Physical: • For SI mode of holding, KYC compliant 1 should be sent. • For JO/AS mode of holding, KYC compliant 1,2 and 3 (if entered) has to be sent For Depository: • For SI mode of holding, KYC compliant 1 should be sent as Y. • For JO/AS mode of holding, KYC compliant 1,2 and 3 (if entered) has to be sent as Y
Occupation	The field specifies the occupation code. It should take one of the following values. • 1 BUSINESS • 2 SERVICE • 3 PROFESSIONAL • 4 AGRICULTURE • 5 RETIRED • 6 HOUSE WIFE • 7 STUDENT • 8 OTHERS
TaxStatus	The field specifies the tax status code. It should take one of the following values. • 1- Individual • 2 - On Behalf Of Minor • 3 - HUF

53

	• 4 - Corporate • 5 - NRE • 6 – NRO
AddressLine	This field specifies the Address of the client.
City	This field specifies the City of the client.
State	This field specifies the state of the client. It should take one of the following values. • UC-Uttranchal • MP-Madhya Pradesh • GOA-Goa • UP-Uttar Pradesh • AP-Andhra Pradesh • TN-Tamil Nadu • SI-Sikkim • AS-Assam • WB-West Bengal • GU-Gujarat • MA-Maharashtra • HP-Himachal Pradesh • MN-Manipur • OR-Orissa • PO-Pondichery • ME-Meghalaya • RA-Rajasthan • PU-Punjab • MI-Mizoram • AN-Andaman & Nicobar • NA-Nagaland • TR-Tripura • AR-Arunachal Pradesh • BH-Bihar • CH-Chandigarh • HA-Haryana • ND-New Delhi • CG-Chattisgarh

	• JK-Jharkhand
	• KA-Karnataka
	• KE-Kerala
	• DL-DELHI
	• JM-JAMMU & KASHMIR
Gender	Gender of client: • M - Male • F – Female • Should be blank; if the tax status is 4 (Corporate)
PINCode	This field specifies the Pincode of the client.
PhoneOffice	This field specifies the Office phone number of the client.
PhoneResidence	This field specifies the residence phone number of the client.
MobileNumber	This field specifies the mobile phone number of the client.
EmailAddress	This field specifies the email address of the client.
BankName	This field specifies the name of the bank on which the client holds the account.
BankCity	This field specifies the city of the bank on which the client holds the account.
AccountNo	This field specifies the client's bank account number
EchoBack	This field specifies the echo back
NEFTCode	This field specifies the client's bank code based on payout mechanism
BankAccountType	This field specifies account type This can contain 'SB'/'CB' for tax status • 1 Individual • 2 On Behalf Of Minor • 3 HUF • 4 Corporate This filed will contain 'NE' for tax_status 'NRE'(5) and 'NO' for tax_status 'NRO'(6) (This field contains value only for Physical orders)

55

StatementCommunicationMode	This field specifies the statement communication mode. This shall contain values as **'P' or 'E'.** P stands for 'Physical' and 'E' stands for 'E-mail'.
PayoutMech	This field specifies the preferred Dividend/ redemption Payment mechanism. It should take one of the following values. 1 - cheque 2 - direct credit 3 - ECS 4 - NEFT 5 - RTGS
DateOfBirth	This field specifies the client's date of birth, if the age is less than 18years.
GuardianName	This field specifies the client's guardian name. It is mandatory if the date of birth is entered
GuardianPANno	This field specifies the client's guardian PAN number. It is mandatory if the date of birth is entered
NomineeName	The field specifies the name of the nominee
NomineeRelation	The field specifies the relationship with the nominee
BranchId	This field should contain the ID of the branch of the particular broker.
TraderId	This field should contain the ID of the user. This field accepts only numbers.
BrokerId	This field should contain the trading member ID.
SIPRegistrationNumber	SIP Registration Number is a unique identification for a SIP Registration. • During SIP Registration entry this field should be zero. • For normal orders this number will be zero. • Format is YYYYMMDDXXXXXXX. • Applicable only for SIP Orders.
SIPRegistrationDate	This field contains the time when the SIP Registration was done. It is the time in seconds from midnight of January 1 1980,

56

SIPSameDayFlag	This field indicates whether the SIP is registered on that day. 'Y' – Same Day SIP Registered 'N' – Historical SIP Registered.
SIPTrancheNumber	• For normal orders this field will be zero. • This field contains the Transaction number. • During SIP Registration, the value will be assigned to 1 in the Host End. • During Subsequent Order Entries, the value indicates the current transaction number.
SIPFrequency	The Frequency for which the SIP is registered. For normal orders this field will be zero.
SIPPeriod	The duration in months for which the SIP is registered. For normal orders this field will be zero.
SIPMonth	The Month or Month combination applicable as per the frequency for the SIP registration. For normal orders this field will be zero.
SIPDay_Date	The Day_Date or Day_Date combination applicable as per the frequency for the SIP Registration. For normal orders this field will be zero.
SIPNextInstallmentDate	For the SIP registered, this field contains the next installment date. It is the time in seconds from midnight of January 1 1980,
SIPEndDate	For the SIP registered, this field contains the SIP registration end date. It is the time in seconds from midnight of January 1 1980,
SIPCancelled Date	If the SIP Registration has been cancelled, this field contains the time when the SIP Registration was cancelled. It is the time in seconds from midnight of January 1 1980.
SIPLastupdtDateTime	This field contains the SIP last update date time. It is the time in seconds from midnight of January 1 1980.
NnfUserInfo	This field should contain information of the NNF users. • First 6 digits will contain the pin code of the dealer. • Next 3 digits will contain the Branch Number

	• Next 3 digits will contain the terminal number.
	• These should match with the details provided by the member to The Exchange. For internet trading the entire above mentioned 12-digits are to be populated as "111111111111"
	• The 13th digit will bear a code to identify program "0" for automated trading and "1" for non-automated trading.
	• The 14th digit will bear a code to identify the vendor. For members developing inhouse software it has to be populated with"0"
	• The 15th digit is reserved for the use of Exchange and is to be populated as "0".
OrderNumber	Order Number is a unique identification for an Order. • During order entry this field should be zero. • The order number is assigned to the order in the order requested response packet.
BookType	Only Spot Book is allowed in MFSS. This field should contain 6.
EntryDateTime	This field should be set to zero while sending the order entry request.
LastModified	• If the order has been modified, this field contains the time when the order was last modified. It is the time in seconds from midnight of January 1 1980, • This field should be set to zero for the order entry request (it is same as Entry Date Time.)
Order_Flags	This structure specifies the attributes of an order. They are: • Modified if set to 1, represents the order is modified. • If an attribute is not to be set, it should be set to 0.
Suspended	This field specifies whether the security is suspended or not. It should be set to 'N' while sending order entry request.
AMCCode	The AMC code to which the scheme belongs to. The amc code should be populated with the corresponding

58

	code present in scheme master download, while sending order entry request.
AMCSchemeCode	The scheme code provided by AMC. The amc scheme code should be populated with the corresponding code present in scheme master download, while sending order entry request.
RTAgentCode	The RT Agent code to which the scheme belongs to. The rt agent code should be populated with the corresponding code present in scheme master download, while sending order entry request.
RTSchemeCode	The scheme code provided by RT agent. The rt scheme code should be populated with the corresponding code present in scheme master download, while sending order entry request.
TotalRedemption	The field should be set as blank for both the subscription and redemption order
DividendMechanism	The field contains dividend mechanism for a dividend scheme and null for a non dividend scheme. For Dividend schemes • P- Payout; when series is DP • R- Reinvestment; when series is DR • Null - for Non dividend schemes.
EchoBack	This field specifies the echo back
SubBrokerCode	This field contains the sub broker code entered during SIP Registration entry. When it is blank, the Primary ARN of the broker will be populated. When the ARN number is sent, it will be validated against the secondary ARN master.

SIP Registration Details Download Trailer

This indicates that the SIP Registration Details Download is complete. This is sent in the

following format:

Version 2.24

Table 20 SIP REGISTRATION DETAILS DOWNLOAD TRAILER

Structure Name	SIP REGISTRATION DETAILS DOWNLOAD TRAILER		
Transaction code	SIP INQUIRY RESPONSE TRAILER (1765)		
Packet Length	42 bytes		
Field Name	Data Type	Size in Byte	Offset
MESSAGE HEADER (Refer to Table1 in Chapter 2)	STRUCT	38	0
NumberOfRecords	LONG	4	38

Field Name	Description
TransactionCode	The transaction code is SIP INQUIRY RESPONSE TRAILER (1765).
NumberOfRecords	This field specifies the number of SIP details downloaded to FE.

Chapter 5   SIP Registration Management

Introduction

This section describes about new SIP Registrations, modifying existing current day SIP Registrations, canceling existing current day SIP Registrations and canceling historical SIP Registrations. The trader can begin entering the SIP Registrations once the trader has logged on to the trading system and the market is in open state. The trader will receive the SIP Registered response with corresponding first investment order response.

SIP Registrations Entry

SIP Registration entry allows the trader to place SIP Registrations in the market. The system accepts the SIP Registrations from the users and the SIP Registrations confirmation is sent to the corresponding users. The first orders are placed in the order book with the time stamp.

Rules of SIP Registrations Entry

SIP Registrations entry is not allowed in the following conditions:

- Market is closed.

- Scheme is suspended.

- Scheme is not eligible in the spot market.

- Scheme does not exist in the system.

- Category does not exist in the system.

- AMC Code does not exist in the system.

- AMC Scheme Code does not exist in the system.

- RTAgent Code does not exist in the system.

- RTScheme Code does not exist in the system.

- Book type is other than Spot Book.

- For Investment, if the Amount is 0.

- Broker is suspended.

- Broker does not exist in trading system.

- Broker is deactivated.

- User's branch order limit has exceeded.

- User is disabled.

- User is an inquiry user.

- User does not exist in trading system.

- Quantity more than the corresponding limit, applicable for the various SIP Registrations.

SIP Registration Entry Request

The format of the SIP Registration entry request is as follows:

The SIP Registration request is sent to Host End with the SPOT IN transcode in the Order ENTRY REQUEST Structure. The SIP Registration transaction will be sent to the HE with the SIP details and the order details. The SIP and the order details will be validated and confirmed in the host end. The Confirmed SIP Registration will have the unique SIP Registration number. The first order of the confirmed SIP will have the unique order number.

Table 21 ORDER_ENTRY_ REQUEST

Structure Name	ORDER_ENTRY_ REQUEST		
Transaction code	SPOT_IN (2002)		
Packet Length	1052 bytes		
Field Name	Data Type	Size in Byte	Offset
Refer to the *Order Entry Request* Structure in Chapter 6			

SIP Registration Entry Response

The response to the SIP Registration and the corresponding order confirmation will be Order confirmation, Order error or one of the general error responses. Once the Order confirmation is received, it indicates that the SIP is registered in the Host end and the Corresponding first order is confirmed. The order error response is given when the entered SIP registration details or the order related detail is rejected by the host. The reason for the rejection is given in the error code and/or reason code.

SIP Registration and Order Confirmation Response

Successful SIP Registration entry results in Order Confirmation Response. The confirmed order is returned to the user. Once the confirmed order response is sent, it indicates the SIP is successfully registered in the HE.

The message sent is as follows:

ORDER ENTRY REQUEST (Refer to *Order Entry Request* in Chapter 6)

Field Name	Description
TransactionCode	The transaction code is ORDER_CONFIRMATION (2073).
OrderNumber	This field contains the order number assigned to the order.
EntryDateTime	This field contains the time at which order confirmed.
SIPRegistration Number	This field contains the registration number assigned to the SIP.
SIPTrancheNumber	This field contains the current transaction of the SIP. For the first order after the successful SIP registration, the value will be 1.

SIP Registration Error Response

The SIP Registration or the corresponding order error response is sent when the entered SIP and its order is rejected by the trading system. The reason for the rejection is given by the reason code and the reason string. The message sent is:

ORDER ENTRY REQUEST (Refer to *Order Entry Request* in Chapter 6)

Field Name	Description
TransactionCode	The transaction code is ORDER_ERROR (2231).
ErrorCode	This field contains the error number. Refer to List of Error Codes in Appendix.

SIP Subsequent Order Entry Response

The subsequent orders transactions for the registered SIP will be carried out in the MFSS TS with the orders being received from the Back office. The Order transactions will be loaded in the MFSS TS and the corresponding order response will be sent back to the users.

The response can be Order confirmation, Order error or one of the general error responses. The order error response is given when the entered order is rejected by the host. The reason for the rejection is given in the error code and/or reason code.

Subsequent Order Confirmation Response

Successful subsequent order entry results in Order Confirmation Response. The confirmed order is returned to the user. The message sent is as follows:

ORDER ENTRY REQUEST (Refer to *Order Entry Request* in Chapter 6)

Field Name	Description
TransactionCode	The transaction code is ORDER_CONFIRMATION (2073).
OrderNumber	This field contains the order number assigned to the order.
Order_Flags	(Refer to *Order Entry Request* in Chapter 6)
EntryDateTime	This field contains the time at which order confirmed.
SIPRegistration Number	This field contains the registration number assigned to the SIP.
SIPTrancheNumber	This field contains the current transaction of the SIP. For the first order after the successful SIP registration, tranche number will be 1 and for the subsequent order the tranche number will be considered as 2.

Subsequent Order Error Response

The subsequent order error response is sent when the subsequent order is rejected by the trading system. The reason for the rejection is given by the reason code and the reason string. The message sent is:

ORDER ENTRY REQUEST (Refer to *Order Entry Request* in Chapter 6)

Field Name	Description
TransactionCode	The transaction code is ORDER_ERROR (2231).
ErrorCode	This field contains the error number. Refer to List of Error Codes in Appendix.
Suspended	This field contains 'C' if the broker is in Closeout.

Current Day SIP Registration Modification

SIP Registration Modification enables the trader to modify confirmed SIP registrations.

Rules of SIP Registration Modification

The following modifications are not allowed:

- Investment to Withdraw or vice versa.

- Modifying Symbol and Series.

- BM modifying CM's SIP Registrations.

- DL modifying BM's SIP Registrations.

- DL modifying CM's SIP Registrations.

- Modifying non existing SIP Registrations.

- Inquiry user trying to modify SIP Registrations.

- Modifying SIP Registrations in such a way that it results in a branch order value to be exceeded.

- Modifying deactivated broker's SIP Registrations.

- If the 'SIP Tranche Number' received from Modification packet does not match with the order entry response 'SIP Tranche Number', In that case SIP registration will not modify.

SIP Registration Modification Request

The trader can modify the SIP Parameters, Amount of investment and attributes of an order by specifying the SIP Registration number to be modified and the order number of the confirmed order. The message sent is:

ORDER ENTRY REQUEST (Refer to *Order Entry Request* in Chapter 6)

Field Name	Description
TransactionCode	The transaction code is ORDER_MOD_IN (2040).
OrderNumber	This should contain order number which is the identity of the order to be modified.
Last ModifiedTime	This should contain time of last activity done on that order. Last activity could be order entry, order

	modification or last trade time of that order. It is in number of seconds from midnight of January 1, 1980.
SIPRegistration Number	This field contains the registration number assigned to the SIP.
Note: The other fields of order modification request are same as the fields of order entry request.	

SIP Registration Modification Response

This response is sent back when a SIP Registration modification is requested. This does not imply that the SIP Registration modification is confirmed. The response can be Order Modification Confirmation, Order Modification Error or one of the general error responses. The order modification error response is given when the modified SIP Registration is rejected by the trading system. The reason for the rejection is given by the reason code and the reason string. The message sent is of the following format:

ORDER ENTRY REQUEST (Refer to *Order Entry Request* in Chapter 6)

Field Name	Description
TransactionCode	The transaction code is ORDER_MOD_OUT (2041).

SIP Registration Modification Confirmation Response

Successful modification of the SIP Registration results in SIP Modification and the corresponding first Order Modification Confirmation. When the SIP Registration modification is confirmed, the order-modified time is filled and sent back. The structure sent is as follows:

ORDER ENTRY REQUEST (Refer to *Order Entry Request* in Chapter 6)

Field Name	Description
TransactionCode	The transaction code is ORDER_MOD_CONFIRMATION (2074).
Last ModifiedTime	This field contains the time when the order was last modified. It is in number of seconds from midnight of January 1, 1980.
EntryDateTime	This field contains the time at which last modified by user. It is in number of seconds from midnight of January 1, 1980.

SIP Registration Modification Error Response

The reason for rejection is given by the Error Code in the header. The message sent is as follows:

ORDER ENTRY REQUEST   (Refer to *Order Entry Request* in Chapter 6)

Field Name	Description
TransactionCode	The transaction code is ORDER_MOD_REJECT (2042).

Current Day SIP Registration Cancellation

The trader can cancel a SIP Registration by specifying the SIP Registration number and the order number.

Rules of SIP Registration Cancellation

- CM can cancel BM's and DL's SIP Registration, but BM and DL cannot cancel CM's SIP Registration.

- BM can cancel DL's SIP Registration, but DL cannot cancel BM's SIP Registration.

- Deactivated broker cannot cancel his/her SIP Registration.

- If the 'SIP Tranche Number' received from cancellation packet does not match with the order entry response 'SIP Tranche Number', in that case SIP registration will not cancel.

SIP Registration Cancellation Request

The format of the message is as follows:

ORDER ENTRY REQUEST (Refer to *Order Entry Request* in Chapter 6)

Field Name	Description
TransactionCode	The transaction code is ORDER_CANCEL_IN (2070).
OrderNumber	This field should contain the order number which is the identity of the order to be cancelled.
Last ModifiedTime	This should contain time of last activity done on that order. Last activity could be order entry, order modification or last trade time of that order. It is in number of seconds from midnight of January 1, 1980.
SIPRegistration Number	This field contains the registration number assigned to the SIP.

SIP Registration Cancellation Response

The response can be SIP Registration Cancellation Confirmation, SIP Registration Cancellation Error or one of the general error responses.

ORDER ENTRY REQUEST (Refer to *Order Entry Request* in Chapter 6)

Field Name	Description
TransactionCode	The transaction code is ORDER_CANCEL_OUT (2071).

SIP Registration Cancellation Confirmation Response

Successful cancellation of SIP Registration results in SIP Registration cancellation and its corresponding first Order Cancellation Confirmation Response. The message sent is as follows:

ORDER ENTRY REQUEST (Refer to *Order Entry Request* in Chapter 6)

Field Name	Description
TransactionCode	The transaction code is ORDER_CANCEL_CONFIRMATION (2075).

SIP Registration Cancellation Error Response

The order cancellation error is sent when the cancellation request is rejected by the system. The reason for rejection is given by the Error Code in the header. The message sent is as follows:

ORDER ENTRY REQUEST   (Refer to *Order Entry Request* in Chapter 6)

Field Name	Description
TransactionCode	The transaction code is ORDER_CANCEL_REJECT (2072).

Historical SIP Registration Cancellation

The trader can cancel a historical SIP Registered by specifying the SIP Registration number.

Rules of Historical SIP Registration Cancellation

- CM can cancel BM's and DL's historical SIP Registration, but BM and DL cannot cancel CM's historical SIP Registration.

- BM can cancel DL's historical SIP Registration, but DL cannot cancel BM's historical SIP Registration.

- Deactivated broker cannot cancel his/her historical SIP Registration.

Historical SIP Registration Cancellation Request

The format of the message is as follows:

Table22 HIST SIP REGISTRATION CXL REQUEST

Structure Name	HIST SIP REGISTRATION CXL REQUEST		
Transaction code	SIP_HIST_CXL_IN (2082)		
Packet Length	72 bytes		
Field Name	Data Type	Size in Byte	Offset
MESSAGE HEADER (Refer Table 1)	STRUCT	38	0
UserType	SHORT	2	38
SIPRegistrationNumber[15]	CHAR	15	40
BrokerID[5]	CHAR	5	55
BranchID	SHORT	2	60
TraderID	SHORT	2	62
NNFUserInfo	DOUBLE	8	64

Field Name	Description
TransactionCode	The transaction code is SIP_HIST_CXL_IN (2082).
UserType	The type of the user.
SIPRegistration Number	This field contains the registration number assigned to the SIP.
BrokerId	This field should contain the trading member ID.
BranchId	This field should contain the ID of the branch of the particular broker.
TraderId	This field should contain the ID of the user. This field accepts only numbers.
NNFUserInfo	The user info of CTCL member

Historical SIP Registration Cancellation Responses

The response to Historical SIP Registration cancellation request can be Historical SIP Registration cancellation response message or Historical SIP Registration cancellation confirmation. The Historical SIP Registration cancellation error response is given as SIP Registration cancellation response message, when the entered Historical SIP Registration cancellation is rejected by the

host. The reason for the rejection is given in the error code and/or reason code in the cancellation response message.

Historical SIP Registration Cancellation Response

This response is sent back when a Historical SIP Registration cancellation requested is rejected. This does not imply that the Historical SIP Registration cancellation has been confirmed. However, it implies that the Historical SIP Registration cancellation has reached the trading system and rejected due to some validation failure. The message sent will be of the following format:

Table23 HIST SIP REGISTRATION CXL RESPONSE

Structure Name	HIST SIP REGISTRATION CXL RESPONSE		
Transaction code	SIP_HIST_CXL_OUT (2083)		
Packet Length	72 bytes		
Field Name	Data Type	Size in Byte	Offset
MESSAGE HEADER (Refer Table 1)	STRUCT	38	0
UserType	SHORT	2	38
SIPRegistrationNumber[15]	CHAR	15	40
BrokerID[5]	CHAR	5	55
BranchID	SHORT	2	60
TraderID	SHORT	2	62
NNFUserInfo	DOUBLE	8	64

Historical SIP Registration Cancellation Confirmation Response

Successful cancellation of historical SIP Registration results in historical SIP Registration cancellation. The message sent is as follows:

Table 24 HIST SIP REGISTRATION CXL CONFIRM

Structure Name	HIST SIP REGISTRATION CXL CONFIRM		
Transaction code	SIP_HIST_CXL_CONFIRM (2084)		
Packet Length	98 bytes		
Field Name	Data Type	Size in Byte	Offset
MESSAGE HEADER(Refer Table 1)	STRUCT	38	0
SECURITY_INFORMATION(Refer Table 24.1)	STRUCT	12	38
SIPRegistrationNumber[15]	CHAR	15	50

BrokerID[5]	CHAR	5	65
BranchID	SHORT	2	70
TraderID	SHORT	2	72
SIPCancelledDate	LONG	4	74
SIPRegistrationDate	LONG	4	78
SIPFrequency	SHORT	2	82
SIPPeriod	SHORT	2	84
SIPMonth	SHORT	2	86
SIPDay_Date	SHORT	2	88
NNFUserInfo	DOUBLE	8	90

Table 24.1 SECURITY_INFORMATION

Structure Name	SECURITY_INFORMATION		
Packet Length	12 bytes		
Field Name	Data Type	Size in Byte	Offset
SYMBOL[10]	CHAR	10	0
SERIES[2]	CHAR	2	10

Field Name	Description
TransactionCode	The transaction code is SIP_HIST_CXL_CONFIRM (2084).
Security Information	This structure contains the following fields: • Symbol • Series. The Symbol field should contain the name of the scheme. The series field identifies the type of the scheme.
SIPRegistration Number	This field contains the registration number assigned to the SIP.
BrokerId	This field should contain the trading member ID.
BranchId	This field should contain the ID of the branch of the particular broker.
TraderId	This field should contain the ID of the user. This field accepts only numbers.
SIPCancelled Date	If the SIP Registration has been cancelled, this field contains the time when the SIP Registration was cancelled. It is the time in seconds from midnight of January 1 1980.

71

SIPRegistrationDate	This field contains the time when the SIP Registration was done. It is the time in seconds from midnight of January1, 1980.
SIPFrequency	The Frequency for which the SIP is registered.
SIPPeriod	The duration in months for which the SIP is registered.
SIPMonth	The Month or Month combination applicable as per the frequency for the SIP registration.
SIPDay_Date	The Day_Date or Day_Date combination applicable as per the frequency for the SIP Registration.
NNFUserInfo	The user info of CTCL member

Cancellation of SIP Orders

A Trader can cancel the SIP Tranche orders by providing the order number.

Rules of SIP Order Cancellation

1. The First tranche order should not be allowed to cancel.
2. If the 'SIP Tranche Number' received from cancellation packet does not match with the order entry 'SIP Tranche Number', in that case SIP order will not cancel.
3. If a Tranche is cancelled, the corresponding registration will not be cancelled.Subsequent tranches wil be generared irrespective of cancellation of tranche.For eg. If 3rd tranche is cancelled in the system the next tranche will come to the system as 4th tranche.
4. Modification of the tranches will not be allowed.
5. CM can cancel BM's and DL's SIP Orders, but BM and DL cannot cancel CM's SIP Orders.BM can cancel DL's SIP Orders, but DL cannot cancel BM's SIP.

6. Orders.Deactivated broker cannot cancel his/her SIP Orders.

SIP Order Cancellation Request

The format of the message is as follows:

ORDER ENTRY REQUEST (Refer to *Order Entry Request* in Chapter 6)

Field Name	Description
TransactionCode	The transaction code is ORDER_CANCEL_IN (2070).
OrderNumber	This field should contain the order number which is the identity of the order to be cancelled.
Last ModifiedTime	This should contain time of last activity done on that order. Last activity could be order entry, or last trade

	time of that order. It is in number of seconds from midnight of January 1, 1980,
SIPRegistration Number	This field contains the registration number assigned to the SIP.
SIPTransactionIndicator	This field must contain 'T' for SIP Order Cancellation.
SIPTrancheNumber	This field contains the current transaction of that SIP.

SIP Order Cancellation Confirmation Response

Successful cancellation of SIP Order results in SIP Tranche order cancellation. The message sent is as follows:

ORDER ENTRY REQUEST   (Refer to *Order Entry Request* in Chapter 6)

Field Name	Description
TransactionCode	The transaction code is ORDER_CANCEL_CONFIRMATION (2075).
SIPTransactionIndicator	This field will contain 'T' in SIP Order Cancellation Confirmation Response.

SIP Order Cancellation Error Response

The order cancellation error is sent when the cancellation request is rejected by the system. The reason for rejection is given by the Error Code in the header. The message sent is as follows:

ORDER ENTRY REQUEST   (Refer to *Order Entry Request* in Chapter 6)

Field Name	Description
TransactionCode	The transaction code is ORDER_CANCEL_REJECT (2072).
SIPTransactionIndicator	This field will contain 'T' in SIP Order Cancellation Error Response.

Chapter 6   Order Management

Introduction

This section describes about entering new orders, modifying existing orders, and canceling outstanding orders. The trader can begin entering the orders once the trader has logged on to the trading system and the market is in open state.

Order Entry

Order entry allows the trader to place orders in the market. The system accepts the orders from the users and the confirmation is sent to the corresponding users. The orders are placed in the order book with the time stamp.

Order Types

Spot Orders
The only book type used in MFSS is Spot Book. All orders are spot orders.

Rules of Order Entry
Order entry is not allowed in the following conditions:

- Market is closed.

- Scheme is suspended.

- Scheme is not eligible in the spot market.

- Scheme does not exist in the system.

- Category does not exist in the system.

- AMC Code does not exist in the system.

- AMC Scheme Code does not exist in the system.

- RTAgent Code does not exist in the system.

- RTScheme Code does not exist in the system.

- Book type is other than Spot Book.

- For buy order, Amount is 0.

- Broker is suspended.

- Broker does not exist in trading system.

- Broker is deactivated.

- User's branch order limit has exceeded.

- User is disabled.

- User is an inquiry user.

- User does not exist in trading system.

- Quantity / Amount more than the corresponding limit, applicable only for the physical redemption orders.

- For Subscription and Redemption orders, the amount should be less than the corresponding limits specified in the scheme master.

- For LIQUID fund schemes with category code LIQID, the amount greater than the corresponding limits specified in the scheme master.

Order Entry Request

The format of the order entry request is as follows:

Table 25 ORDER_ENTRY_ REQUEST

Structure Name	ORDER_ENTRY_ REQUEST		
Transaction code	SPOT_IN (2002)		
Packet Length	1052 bytes		
Field Name	Data Type	Size in Byte	Offset
MESSAGE HEADER(Refer Table 1)	STRUCT	38	0
ModCxlBy	CHAR	1	38
SIPTransactionIndicator	CHAR	1	39
ReasonCode	SHORT	2	40
StartAlpha[2]	CHAR	2	42
EndAlpha[2]	CHAR	2	44
SIPFrequency	SHORT	2	46
SIPPeriod	SHORT	2	48
SIPMonth	SHORT	2	50
SIPDay_Date	SHORT	2	52
SECURITY_INFORMATION(Refer Table 25.1)	STRUCT	12	54
Reserved	CHAR	1	66
CategoryCode[5]	CHAR	5	67
AMCCode[3]	CHAR	3	72
AMCSchemeCode[10]	CHAR	10	75

RTAgentCode[10]	CHAR	10	85
RTSchemeCode[5]	CHAR	5	95
OrderNumber	DOUBLE	8	100
ApplNumber [10]	CHAR	10	108
BookType	SHORT	2	118
BuySell	SHORT	2	120
PurchaseType	SHORT	2	122
Amount	DOUBLE	8	124
Quantity	DOUBLE	8	132
TotalRedemption	CHAR	1	140
DividendMechanism	CHAR	1	141
EntryDateTime	LONG	4	142
LastModified	LONG	4	146
ST_ORDER_FLAGS(Refer Table 25.2)	STRUCT	2	150
DepositorySettlement	CHAR	1	152
DepositoryID[8]	CHAR	8	153
DepositoryClientID [16]	CHAR	16	161
DepositoryCode [8]	CHAR	8	177
FolioNumber [16]	CHAR	16	185
CLIENT INFO(Refer Table 25.3)	STRUCT	775	201
NnfUserInfo	DOUBLE	8	976
BranchId	SHORT	2	984
TraderId	SHORT	2	986
BrokerId [5]	CHAR	5	988
SubBrokerCode [15]	CHAR	15	993
SIPRegistrationNumber [15]	CHAR	15	1008
SIPFlag	CHAR	1	1023
SIPTrancheNumber	LONG	4	1024
EUIN	CHAR	10	1028
SIPGenerateOrder	CHAR	1	1038
BypassMinRedemptionCheck	CHAR	1	1039
DPC	CHAR	12	1040

Table 25.1 SECURITY_INFORMATION

Structure Name	SECURITY_INFORMATION		
Packet Length	12 bytes		
Field Name	Data Type	Size in Byte	Offset
SYMBOL[10]	CHAR	10	0
SERIES[2]	CHAR	2	10

Table 25.2 ST_ORDER_FLAGS

Structure Name	ST_ORDER_FLAGS		
Packet Length	2 bytes		
Field Name	Data Type	Size in Bits	Offset
Reserved	CHAR	8	0
Reserved1	BIT	5	1
Modified	BIT	1	1
Reserved2	BIT	2	1

Table 25.3 CLIENT INFO

Structure Name	CLIENT INFO		
Packet Length	775 bytes		
Field Name	Data Type	Size in Byte	Offset
ModeOfHolding [2]	CHAR	2	0
ClientCode[3][10]	CHAR	30	2
ClientName1[70]	CHAR	70	32
ClientName2[35]	CHAR	35	102
ClientName3[35]	CHAR	35	137
PanNumber[3][10]	CHAR	30	172
KYCCompliant[3]	CHAR	3	202
Occupation	SHORT	2	205
TaxStatus	SHORT	2	207
AddressLine[3][40]	CHAR	120	209
City[35]	CHAR	35	329
State[2]	CHAR	2	364
Gender	CHAR	1	366
PINCode	LONG	4	367
PhoneOffice[8]	CHAR	8	371
PhoneResidence[8]	CHAR	8	379
MobileNumber[10]	CHAR	10	387
EmailAddress[50]	CHAR	50	397
BankName[40]	CHAR	40	447
BankBranch[40]	CHAR	40	487
BankCity[35]	CHAR	35	527
AccountNo[40]	CHAR	40	562
EchoBack[4]	CHAR	4	602
NEFTCode[11]	CHAR	11	606
BankAccountType[10]	CHAR	10	617
StatementCommunicationMode	CHAR	1	627

RESERVED	CHAR	5	628
PayoutMech	SHORT	2	633
DateOfBirth[8]	CHAR	8	635
GuardianName[35]	CHAR	35	643
GuardianPANno[10]	CHAR	10	678
NomineeName[40]	CHAR	40	688
NomineeRelation[40]	CHAR	40	728
Reserved	CHAR	7	768

The description and values of the fields are given below.

Field Name	Description
TransactionCode	The transaction code is SPOT_IN (2002).
ModCxlBy	This field denotes which person has modified or cancelled a particular order. It should contain one of the following values: • 'T' for Trader • 'B' for Branch Manager • 'M' for Corporate Manager • 'C' for Control
SIPTransactionIndicator	'S' – SIP Transactions ' ' – Normal Orders (Should be blank for normal orders as existing) 'T'- SIP Tranche Order Cancellation
ReasonCode	This field contains the reason code for a particular order request rejection. This has the details regarding the error along with the error code. This field should be set to zero while sending the request to the host. Refer to *Reason Codes* in Appendix
StartAlpha	This field should be blank.
EndAlpha	This field should be blank.
SIPFrequency	The Frequency for which the SIP is registered. For normal orders this field will be zero.
SIPPeriod	The duration in months for which the SIP is registered. For normal orders this field will be zero.
SIPMonth	The Month or Month combination applicable as per the frequency for the SIP registration. For normal orders this field will be zero.

SIPDay_Date	The Day_Date or Day_Date combination applicable as per the frequency for the SIP Registration. For normal orders this field will be zero.
Security Information	This structure contains the following fields: • Symbol • Series. ▪ The Symbol field should contain the name of the scheme. ▪ The series field identifies the type of the scheme.
Suspended	This field specifies whether the security is suspended or not. It should be set to 'N' while sending order entry request.
CategoryCode	The category to which the scheme belongs to. The category code should be populated with the corresponding code present in scheme master download, while sending order entry request.
AMCCode	The AMC code to which the scheme belongs to. The amc code should be populated with the corresponding code present in scheme master download, while sending order entry request.
AMCSchemeCode	The scheme code provided by AMC. The amc scheme code should be populated with the corresponding code present in scheme master download, while sending order entry request.
RTAgentCode	The RT Agent code to which the scheme belongs to. The rt agent code should be populated with the corresponding code present in scheme master download, while sending order entry request.
RTSchemeCode	The scheme code provided by RT agent. The rt scheme code should be populated with the corresponding code present in scheme master download, while sending order entry request.
OrderNumber	Order Number is a unique identification for an Order. During order entry this field should be zero.
ApplNumber	The application number of that order. It is optional.
BookType	Only Spot Book is allowed in MFSS. This field should contain 6.

BuySell	This field should specify whether the order is a buy or sell. It should take one of the following values. • '1' for Buy order • '2' for Sell order
PurchaseType	The field specifies the purchase type. It should take one of the following values. For Physical Purchase: • '1' for Fresh purchase • '2' for Additional purchase For Depository purchase • '1' for Fresh purchase • '2' for Additional purchase For both physical and depository subscription: • '3' For SIP purchase
Amount	The field specifies the amount for a subscription or redemption order.
Quantity	For a subscription order quantity should be zero. For a redemption order the field specifies the quantity of that order.
TotalRedemption	The field should be set as blank for both the subscription and redemption order
DividendMechanism	The field contains dividend mechanism for a dividend scheme and null for a non dividend scheme. For Dividend schemes • P- Payout; when series is DP • R- Reinvestment; when series is DR • Null - for Non dividend schemes.
EntryDateTime	This field should be set to zero while sending the order entry request.
LastModified	If the order has been modified, this field contains the time when the order was last modified. It is the time in seconds from midnight of January 1 1980, This field should be set to zero for the order entry request (it is same as Entry Date Time.)

Order_Flags	This structure specifies the attributes of an order. They are: Modified if set to 1, represents the order is modified. If an attribute is not to be set, it should be set to 0.
DepositorySettlement	For a scheme • If the depository settl flag (SecAllowDep) is set and the mandatory depository flag (SecDepMandatory) is not set, then this field can be set to either Y or N. • If the depository settl flag is not set and the mandatory depository flag is set, then this field can be set to Y. • If the depository settl flag is not set and the mandatory depository flag is not set, then this field should be set to N.
DepositoryID	• If Depository settlement is Y, This field should contain the depository id. • If Depository settlement is N, This field should be blank. • For NSDL: The Depository ID should be of length 8 digits. • For CDSL: The field should be blank.
DepositoryClientID	• If Depository settlement is Y, This field should contain the depository client id. • If Depository settlement is N, This field should be blank. • For NSDL: The Depository Client ID should be of length 8 digits. • For CDSL: The Depository Client ID should be of length 16 digits.
DepositoryCode	The field should be set as NSDL or CDSL for depository purchase and redemption of the scheme based upon the scheme depository code. For orders of non depository scheme, the field should be blank
FolioNumber	• If Depository settlement is Y, This field should be blank. • If Depository settlement is N, This field should be blank for fresh purchase and field should

81

	contain the folio number for additional purchase. • The folio number length should not be greater than the folio number length applicable for the scheme.
ModeOfHolding	The field specifies the mode of holding. It should take one of the following values. • SI for single • JO for Joint • AS for Anyone/Survivor
ClientCode	The field should contain the Client Code. For Physical purchase: • For SI mode of holding, Client Code 1 should be sent. • For JO/AS mode of holding, Client code 1,2 and 3 (if entered) has to be sent • The client code 1, 2 and 3 should not be same. For Depository purchase: • For SI mode of holding, the CD code is sent in client code 1. Client code 2 and 3 should be sent as blank. • For JO/AS mode of holding, the CD code is sent in client code 1 and client code 2 and 3 should be sent as blank. • The client code 2 and 3 should be null.
ClientName	The field should contain the Client name. • For SI mode of holding, Client Name 1 should be sent. • For JO/AS mode of holding, Client Name 1,2 and 3 (if entered) has to be sent
KYCCompliant	The field should contain the KYC compliant. For Physical: • For SI mode of holding, KYC compliant 1 should be sent. • For JO/AS mode of holding, KYC compliant 1,2 and 3 (if entered) has to be sent For Depository:

82

	• For SI mode of holding, KYC compliant 1 should be sent as Y. • For JO/AS mode of holding, KYC compliant 1,2 and 3 (if entered) has to be sent as Y
Occupation	The field specifies the occupation code. It should take one of the following values. • 1 BUSINESS • 2 SERVICE • 3 PROFESSIONAL • 4 AGRICULTURE • 5 RETIRED • 6 HOUSE WIFE • 7 STUDENT • 8 OTHERS
TaxStatus	The field specifies the tax status code. It should take one of the following values. • 1 Individual • 2 On Behalf Of Minor • 3 HUF • 4 Corporate • 5 NRE • 6 NRO
AddressLine	This field specifies the Address of the client.
City	This field specifies the City of the client.
State	This field specifies the state of the client. It should take one of the following values. • UC-Uttranchal • MP-Madhya Pradesh • GOA-Goa • UP-Uttar Pradesh • AP-Andhra Pradesh • TN-Tamil Nadu • SI-Sikkim • AS-Assam • WB-West Bengal • GU-Gujarat

83

	- MA-Maharashtra - HP-Himachal Pradesh - MN-Manipur - OR-Orissa - PO-Pondichery - ME-Meghalaya - RA-Rajasthan - PU-Punjab - MI-Mizoram - AN-Andaman & Nicobar - NA-Nagaland - TR-Tripura - AR-Arunachal Pradesh - BH-Bihar - CH-Chandigarh - HA-Haryana - ND-New Delhi - CG-Chattisgarh - JK-Jharkhand - KA-Karnataka - KE-Kerala - DL-DELHI - JM-JAMMU & KASHMIR
Gender	Gender of client M - Male F – Female Should be blank; if the tax status is 4 (Corporate)
PINCode	This field specifies the Pincode of the client.
PhoneOffice	This field specifies the Office phone number of the client.
PhoneResidence	This field specifies the residence phone number of the client.
MobileNumber	This field specifies the mobile phone number of the client.
EmailAddress	This field specifies the email address of the client.

BankName	This field specifies the name of the bank on which the client holds the account.
BankCity	This field specifies the city of the bank on which the client holds the account.
AccountNo	This field specifies the client's bank account number
EchoBack	This field specifies the echo back
NEFTCode	This field specifies the client's bank code based on payout mechanism
BankAccountType	This field specifies account type. This can contain 'SB'/'CB' for tax status • 1 Individual • 2 On Behalf Of Minor • 3 HUF 4 - Corporate This filed will contain 'NE' for tax_status 'NRE'(5) and 'NO' for tax_status 'NRO'(6) (This field contains value only for Physical orders)
StatementCommunicationMode	This field specifies the statement communication mode. This shall contain values as **'P' or 'E'.** P stands for 'Physical' and 'E' stands for 'E-mail'.
PayoutMech	This field specifies the preferred Divident/ redemption Payment mechanism. It should take one of the following values. 1 - cheque 2 - direct credit 3 - ECS 4 - NEFT 5 - RTGS
DateOfBirth	This field specifies the client's date of birth, if the age is less than 18years.
GuardianName	This field specifies the client's guardian name. It is mandatory if the date of birth is entered
GuardianPANno	This field specifies the client's guardian PAN number. It is mandatory if the date of birth is entered
NomineeName	The field specifies the name of the nominee
NomineeRelation	The field specifies the relationship with the nominee
NnfUserInfo	This field should contain information of the NNF users

85

	• First 6 digits will contain the pin code of the dealer. • Next 3 digits will contain the Branch Number • Next 3 digits will contain the terminal number. • These should match with the details provided by the member to The Exchange. For internet trading the entire above mentioned 12-digits are to be populated as "111111111111" • The 13th digit will bear a code to identify program "0" for automated trading and "1" for non-automated trading. • The 14th digit will bear a code to identify the vendor. For members developing inhouse software it has to be populated with"0" • The 15th digit is reserved for the use of Exchange and is to be populated as "0".
BranchId	This field should contain the ID of the branch of the particular broker.
TraderId	This field should contain the ID of the user. This field accepts only numbers.
BrokerId	This field should contain the trading member ID.
SubBrokerCode	During order entry, it can be blank or the ARN number has to be entered. When it is blank, the Primary ARN of the broker will be populated. When the ARN number is sent, it will be validated against the secondary ARN master.
SIPRegistrationNumber	SIP Registration Number is a unique identification for a SIP Registration. • During SIP Registration entry this field should be zero. • For normal orders this number will be zero. • Format is YYYYMMDDXXXXXXX. • Applicable only for SIP Orders.
SIPFlag	The flag indicates S for a SIP Order. And N for a normal order. 'S' – SIP Order 'N' – Normal Order

SIPTrancheNumber	For normal orders this field will be zero. • This field contains the Transaction number. • During SIP Registration, the value will be assigned to 1 in the Host End. • During Subsequent Order Entries, the value indicates the current transaction number.
EUIN	This field contains the Employee Unique Identification Number.It should be left blank.
SIPGenerateOrder	For normal orders this field should be blank as sent currently For SIP Registrations this field should have following values : • Blank (as sent currently)- if 1st tranche order is to be generated on the date of SIP registration • N- if 1st tranche order is to be generated on the SIP date and not on the date of SIP registration This field is not modifiable.
BypassMinRedemptionCheck	Valid in case of normal redemption orders only. It should have following values : • Blank (as sent currently) – Minimum redemption quantity check is to be performed • Y – If minimum redemption quantity check is to be bypassed For other orders (non-redemption orders) this field will be ignored.

Order Entry Response

The primary response to order entry is Order Requested message. The secondary response can be Order confirmation, Order error or one of the general error responses. The order error response is given when the entered order is rejected by the host. The reason for the rejection is given in the error code and/or reason code.

Order Requested Response - This response is discontinued from the HE.

This response is sent back when an order is requested. This does not imply that the order has been confirmed. However, it implies that the order has reached the trading system. The message sent will be of the following format:

Table 26 ORDER_ENTRY_ REQUEST

Structure Name	ORDER_ENTRY_ REQUEST
Transaction code	SPOT_OUT (2003)
Packet Length	1000 bytes

(For details on ORDER_ENTRY_REQUEST, refer to *Order Entry Request* in Chapter 6)

Field Name	Description
TransactionCode	The transaction code is SPOT_OUT (2003).
OrderNumber	This field contains the order number assigned to the order.
EntryDateTime	This field contains the date and time when the order entered the system.

Order Confirmation Response

Successful order entry results in Order Confirmation Response. The confirmed order is returned to the user. The message sent is as follows:

ORDER ENTRY REQUEST (Refer to *Order Entry Request* in Chapter 6)

Field Name	Description
TransactionCode	The transaction code is ORDER_CONFIRMATION (2073).
OrderNumber	This field contains the order number assigned to the order.
Order_Flags	(Refer to *Order Entry Request* in Chapter 6)
EntryDateTime	This field contains the time at which order confirmed.

Order Error Response

The order error response is sent when the entered order is rejected by the trading system. The reason for the rejection is given by the reason code and the reason string. The message sent is:

ORDER ENTRY REQUEST (Refer to *Order Entry Request* in Chapter 6)

Field Name	Description
TransactionCode	The transaction code is ORDER_ERROR (2231).
ErrorCode	This field contains the error number. Refer to *List of Error Codes* in Appendix
Suspended	This field contains 'C' if the broker is in Closeout.

Order Modification

Order Modification enables the trader to modify confirmed orders.

Rules of Order Modification

The following modifications are not allowed:

- Buy to Sell or vice versa.

- Modifying Symbol and Series.

- BM modifying CM's orders.

- DL modifying BM's orders.

- DL modifying CM's orders.

- Modifying non existing order.

- Inquiry user trying to modify.

- Modifying an order in such a way that it results in a branch order value to be exceeded.

- Modifying deactivated broker's orders.

Order Modification Request

The trader can modify the quantity, price and attributes of an order by specifying the order number of the order to be modified. The message sent is:

ORDER ENTRY REQUEST (Refer to *Order Entry Request* in Chapter 6)

Field Name	Description
TransactionCode	The transaction code is ORDER_MOD_IN (2040).
OrderNumber	This should contain order number which is the identity of the order to be modified.
Last ModifiedTime	This should contain time of last activity done on that order. Last activity could be order entry, order modification or last trade time of that order. It is in number of seconds from midnight of January 1, 1980,

Order Modification Response

This response is sent back when an order modification is requested. This does not imply that the order modification is confirmed. The response can be Order Modification Confirmation, Order Modification Error or one of the general error responses. The order modification error response is given when the modified order is rejected by the trading system. The reason for the rejection is given by the reason code and the reason string. The message sent is of the following format:

ORDER ENTRY REQUEST (Refer to *Order Entry Request* in Chapter 6)

Field Name	Description
TransactionCode	The transaction code is ORDER_MOD_OUT (2041). **This response is discontinued from the HE.**

Order Modification Confirmation Response

Successful modification of the order results in Order Modification Confirmation. When the order modification is confirmed, the order-modified time is filled and sent back. The structure sent is as follows:

ORDER ENTRY REQUEST (Refer to *Order Entry Request* in Chapter 6)

Field Name	Description
TransactionCode	The transaction code is ORDER_MOD_CONFIRMATION (2074).
Last ModifiedTime	This field contains the time when the order was last modified. It is in number of seconds from midnight of January 1, 1980.
EntryDateTime	This field contains the time at which last modified by user. It is in number of seconds from midnight of January 1, 1980.

Order Modification Error Response

The reason for rejection is given by the Error Code in the header. The message sent is as follows:

ORDER ENTRY REQUEST   (Refer to *Order Entry Request* in Chapter 6)

Field Name	Description
TransactionCode	The transaction code is ORDER_MOD_REJECT (2042).

Order Cancellation

The trader can cancel an order by specifying the order number.

Rules of Order Cancellation

- CM can cancel BM's and DL's order, but BM and DL cannot cancel CM's order.
- BM can cancel DL's order, but DL cannot cancel BM's order.
- Deactivated broker cannot cancel his/her order.

Order Cancellation Request

The format of the message is as follows:

ORDER ENTRY REQUEST (Refer to *Order Entry Request* in Chapter 6)

Field Name	Description
TransactionCode	The transaction code is ORDER_CANCEL_IN (2070).
OrderNumber	This field should contain the order number which is the identity of the order to be cancelled.
Last ModifiedTime	This should contain time of last activity done on that order. Last activity could be order entry, order modification or last trade time of that order. It is in number of seconds from midnight of January 1, 1980.

Order Cancellation Response

The response can be Order Cancellation Confirmation, Order Cancellation Error or one of the general error responses.

ORDER ENTRY REQUEST (Refer to *Order Entry Request* in Chapter 6)

Field Name	Description
TransactionCode	The transaction code is ORDER_CANCEL_OUT (2071). This response is discontinued from the HE.

Order Cancellation Confirmation Response

Successful cancellation of order results in Order Cancellation Confirmation Response. The message sent is as follows:

ORDER ENTRY REQUEST   (Refer to *Order Entry Request* in Chapter 6)

Field Name	Description
TransactionCode	The transaction code is ORDER_CANCEL_CONFIRMATION (2075).

Order Cancellation Error Response

The order cancellation error is sent when the cancellation request is rejected by the system. The reason for rejection is given by the Error Code in the header. The message sent is as follows:

ORDER ENTRY REQUEST   (Refer to *Order Entry Request* in Chapter 6)

Field Name	Description

TransactionCode	The transaction code is ORDER_CANCEL_REJECT (2072).

Chapter 7   Unsolicited Messages

Introduction

This section details the unsolicited messages that are received on the interactive connection. These messages are not received by the users in response to any request.

Interactive/Broadcast Messages Sent from Control

A message can be sent to the trader(s) from the NSE-Control Work Station. If it is sent to all the traders, it comes as a broadcast in the structure BROADCAST_MESSAGE. (Refer to *General Message Broadcast* in Chapter 7)

When the message is sent to a particular user, it comes as an interactive message in the following structure:

Table 27 MS_TRADER_INT_MSG

Structure Name	MS_TRADER_INT_MSG		
Transaction code	CTRL_MSG_TO_TRADER (5295)		
Packet Length	285 bytes		
Field Name	Data Type	Size in Byte	Offset
MESSAGE HEADER(Refer Table 1)	STRUCT	38	0
TraderId	CHAR	2	38
ActionCode[3]	CHAR	3	40
Reserved	CHAR	1	43
MsgLength	SHORT	2	44
Msg	CHAR	239	46

Field Name	Description
TransactionCode	The transaction codes are: • CTRL_MSG_TO_TRADER (5295) for interactive messages
ActionCode	This field contains the action code to indicate the action taken. 'SYS' - System

Change of Market Status

Whenever the status of the market changes, the following structure is sent:

Table 37 BCAST_VCT_MESSAGES

Structure Name	BCAST_VCT_MESSAGES		
Transaction code	BC_CLOSE_MSG (6521) / BC_OPEN_MSG (6511)		
Packet Length	295 bytes		
Field Name	Data Type	Size in Byte	Offset
MESSAGE HEADER(Refer Table 1)	STRUCT	38	0
SECURITY_INFORMATION(Refer Table 37.1)	STRUCT	12	38
MarketType	SHORT	2	50
BROADCAST DESTINATION (Refer Table 37.2 & Table 37.3)	STRUCT	2	52
BroadcastMessageLength	SHORT	2	54
BroadcastMessage [239]	CHAR	239	56

Table 37.1 SECURITY_INFORMATION

Structure Name	SECURITY_INFORMATION		
Packet Length	12 bytes		
Field Name	Data Type	Size in Byte	Offset
Symbol[10]	CHAR	10	0
Series[2]	CHAR	2	10

For Small Endian Machines:

Table 37.2 BROADCAST DESTINATION

Structure Name	BROADCAST DESTINATION		
Packet Length	2 bytes		
Field Name	Data Type	Size in bits	Offset
Reserved	BIT	7	0
TraderWs	BIT	1	0
Reserved	CHAR	8	1

For Big Endian Machines:

Table 37.3 BROADCAST DESTINATION

Structure Name	BROADCAST DESTINATION		
Packet Length	2 bytes		
Field Name	Data Type	Size in bits	Offset
Reserved	BIT	1	0
TraderWs	BIT	7	0
Reserved	CHAR	8	1

General Message Broadcast

Any general message is broadcasted in the following structure. The structure sent is:

Table 38 BROADCAST MESSAGE

Structure Name	BROADCAST MESSAGE		
Transaction code	BCAST_JRNL_VCT_MSG (6501)		
Packet Length	295 bytes		
Field Name	Data Type	Size in Byte	Offset
MESSAGE HEADER(Refer Table 1)	STRUCT	38	0
BranchNumber	SHORT	2	38
BrokerNumber [5]	CHAR	5	40
ActionCode [3]	CHAR	3	45
Reserved	CHAR	4	48
BROADCAST DESTINATION(Refer Table 38.1 & Table 38.2)	STRUCT	2	52
BroadcastMessageLength	SHORT	2	54
BroadcastMessage [239]	CHAR	239	56

For Small Endian Machines

Table 38.1 BROADCAST DESTINATION

Structure Name	BROADCAST DESTINATION		
Packet Length	2 bytes		
Field Name	Data Type	Size in Bits	Offset
Reserved	BIT	7	0
TraderWs	BIT	1	0
Reserved	BIT	8	1

For Big Endian Machines

Table 38.2 BROADCAST DESTINATION

Structure Name	BROADCAST DESTINATION		
Packet Length	2 bytes		
Field Name	Data Type	Size in Bits	Offset
Reserved	BIT	1	0
TraderWs	BIT	7	0

Reserved	BIT	8	1

Field Name	Description
TransactionCode	The transaction code is BCAST_JRNL_VCT_MSG (6501).
BranchNumber	This field contains the branch number of the trader or broker. This shall be 0 for generic messages.
BrokerNumber	This field contains the Trading Member ID of the broker. This shall be blank for generic messages.
ActionCode	This field Indicates the action taken. 'SYS' - System
BroadcastDestination	This field contains the destination of the message, that is, Trader Workstation or Control Workstation.
BroadcastMessageLength	This field contains the length of the broadcast message.
BroadcastMessage	This field contains the broadcast message.

Chapter 8   Broadcast

Introduction

This section describes the various messages with their structures that were previously sent over Broadcast (multicast) channel. Since version 2.23 these messages will be sent on the interactive channel (TCP/IP) itself. The structures of these messages will remain unchanged.

General Message Broadcast

Any general message is broadcasted in the following structure. The structure sent is:

Table 28 BROADCAST MESSAGE

Structure Name	BROADCAST MESSAGE		
Transaction code	BCAST_JRNL_VCT_MSG (6501)		
Packet Length	295 bytes		
Field Name	Data Type	Size in Byte	Offset
MESSAGE HEADER(Refer Table 1)	STRUCT	38	0
BranchNumber	SHORT	2	38
BrokerNumber [5]	CHAR	5	40
ActionCode [3]	CHAR	3	45
Reserved	CHAR	4	48
BROADCAST DESTINATION(Refer Table 28.1 & Table 28.2)	STRUCT	2	52
BroadcastMessageLength	SHORT	2	54
BroadcastMessage [239]	CHAR	239	56

For Small Endian Machines

Table 28.1 BROADCAST DESTINATION

Structure Name	BROADCAST DESTINATION		
Packet Length	2 bytes		
Field Name	Data Type	Size in Bits	Offset
Reserved	BIT	7	0
TraderWs	BIT	1	0
Reserved	BIT	8	1

For Big Endian Machines

Table 28.2 BROADCAST DESTINATION

Structure Name	BROADCAST DESTINATION		
Packet Length	2 bytes		
Field Name	Data Type	Size in Bits	Offset
Reserved	BIT	1	0
TraderWs	BIT	7	0
Reserved	BIT	8	1

Field Name	Description
TransactionCode	The transaction code is BCAST_JRNL_VCT_MSG (6501).
BranchNumber	This field contains the branch number of the trader or broker.
BrokerNumber	This field contains the Trading Member ID of the broker.
ActionCode	This field Indicates the action taken. 'SYS' - System
BroadcastDestination	This field contains the destination of the message, that is, Trader Workstation or Control Workstation.
BroadcastMessageLength	This field contains the length of the broadcast message.
BroadcastMessage	This field contains the broadcast message.

Change in System Status / Parameters

This message is sent when any global operating parameters are changed or status of markets is changed. The structure of the message is:

SYSTEM INFORMATION DATA (Refer to *System Information Response* in Chapter 4)

Field Name	Description

TransactionCode	The transaction code is BCAST_SYSTEM_INFORMATION_OUT (7206)

Change in Security Master

This is sent whenever the parameter of any security is changed. The structure is given below.

Table 29 SECURITY_UPDATE_INFORMATION

Structure Name	SECURITY_UPDATE_INFORMATION		
Transaction code	BCAST_STOCK_MSTR_CHG (7305)		
Packet Length	412 bytes		
Field Name	Data Type	Size in Byte	Offset
MESSAGE_HEADER(Refer Table 1)	STRUCT	38	0
Token	SHORT	2	38
SECURITY_INFORMATION(Refer Table 29.1)	STRUCT	12	40
InstrumentType	SHORT	2	52
MaxPhyRedempQuantityLimit	DOUBLE	8	54
RtSchemeCode[5]	CHAR	5	62
AmcSchemeCode[10]	CHAR	10	67
SchemeDepCode	CHAR	1	77
Isin[12]	CHAR	12	78
WarningPercent	SHORT	2	90
SEC_ELIGIBILITY_ PER_ MARKET [4] (Refer Table 29.2 & Table 29.3)	STRUCT	16	92
AMCCode[3]	CHAR	3	108
CategoryCode[5]	CHAR	5	111
Name [75]	CHAR	75	116
Reserved	CHAR	1	191
IssueRate	SHORT	2	192
MinPhyAddlSubscrValueLimit	DOUBLE	8	194
BuyNAVPrice	LONG	4	202
SellNAVPrice	LONG	4	206
RtAgentCode[10]	CHAR	10	210
ValDecIndicator	SHORT	2	220
CatStartTime	LONG	4	222
QtyDecIndicator	SHORT	2	226
CatEndTime	LONG	4	228
MinPhyFreshSubscrValueLmt	DOUBLE	8	232
MaxPhyRedempValueLimit	DOUBLE	8	240
Reserved1	LONG	4	248
Reserved2	LONG	4	252
NavDate	LONG	4	256

Reserved4	LONG	4	260
ELIGIBLITY_ INDICATORS(Refer Table 29.4)	STRUCT	2	264
MinPhyRedempValLmt	LONG	4	266
MinPhyRedempQtyLmt	LONG	4	270
PURPOSE(Refer Table 29.5 & Table 29.6)	STRUCT	2	274
LocalUpdateDateTime	LONG	4	276
DeleteFlag	CHAR	1	280
Remark [25]	CHAR	25	281
MaxPhyFreshSubscrValueLimit	DOUBLE	8	306
MaxPhyAddlSubscrValueLimit	DOUBLE	8	314
MaxDepFreshSubscrValueLimit	DOUBLE	8	322
MaxDepAddlSubscrValueLimit	DOUBLE	8	330
MinDepFreshSubscrValueLimit	DOUBLE	8	338
MinDepAddlSubscrValueLimit	DOUBLE	8	346
MaxDepRedempQtyLimit	DOUBLE	8	354
MinDepRedempQtyLimit	DOUBLE	8	362
PhySubscrAmountMultiple	DOUBLE	8	370
DepSubscrAmountMultiple	DOUBLE	8	378
SIPEligibility	CHAR	1	386
AMCName[25]	CHAR	25	387

Table 29.1 SECURITY_INFORMATION

Structure Name	SECURITY_INFORMATION		
Packet Length	12 bytes		
Field Name	Data Type	Size in Byte	Offset
Symbol[10]	CHAR	10	0
Series[2]	CHAR	2	10

For Small Endian Machines:

Table 29.2 SEC_ELIGIBILITY_ PER_ MARKET

Structure Name	SEC_ELIGIBILITY_ PER_ MARKET		
Packet Length	4 bytes		
Field Name	Data Type	Size	Offset
Reserved	BIT	15	0
Eligibility	BIT	1	0
Status	SHORT	2	2

For Big Endian Machines:

Table 29.3 SEC_ELIGIBILITY_ PER_ MARKET

Structure Name	SEC_ELIGIBILITY_ PER_ MARKET

Packet Length	4 bytes		
Field Name	Data Type	Size	**Offset**
Reserved	BIT	1	0
Eligibility	BIT	15	0
Status	SHORT	2	2

Table 29.4 ELIGIBLITY_ INDICATORS

Structure Name	ELIGIBLITY_ INDICATORS		
Packet Length	2 bytes		
Field Name	Data Type	Size in Bits	Offset
Reserved	BIT	5	0
Reserved22	BIT	1	0
Reserved23	BIT	1	0
Reserved11	BIT	1	0
SecAllowBuy	BIT	1	1
SecModCxl	BIT	1	1
SecAllowSell	BIT	1	1
SecAllowDep	BIT	1	1
SecDividend	BIT	1	1
SecDepMandatory	BIT	1	1
Reserved	BIT	2	1

For Small Endian Machines:

Table 29.5 PURPOSE

Structure Name	PURPOSE		
Packet Length	2 bytes		
Field Name	Data Type	Size in bits	Offset
Reserved14	BIT	2	0
Reserved15	BIT	1	0
Reserved16	BIT	1	0
Reserved17	BIT	1	0
Reserved18	BIT	1	0
Reserved19	BIT	1	0
Reserved20	BIT	1	0
Reserved21	BIT	8	1

For Big Endian Machines:

Table 29.6 PURPOSE

Structure Name	PURPOSE		
Packet Length	2 bytes		
Field Name	Data Type	Size in bits	Offset
Reserved20	BIT	1	0
Reserved19	BIT	1	0
Reserved18	BIT	1	0
Reserved17	BIT	1	0
Reserved16	BIT	1	0
Reserved15	BIT	1	0
Reserved14	BIT	2	0
Reserved21	BIT	8	1

Field Name	Description
TransactionCode	The transaction code is BCAST_SECURITY_MSTR_CHG (7305).
Token	This field contains the token number of the scheme being updated. This is unique for a particular symbol-series combination.
SecurityInformation	This field contains the Symbol and Series of the scheme.
InstrumentType	Reserved for Future Use. It is always 0.
MaxPhyRedempQuantityLimit	This field specifies the max quantity allowed for the scheme. This is applicable for Physical Redemption orders.
RtSchemeCode	This field specifies the RT Scheme code of the scheme
AmcSchemeCode	This field specifies the AMC Scheme code of the scheme
SchemeDepCode	This field conatins the scheme depository code. If the scheme is eligible for Depository settlement, the value will be • N for NSDL only

Field Name	Description
	• C for CDSL only • B for Both NSDL/CDSL. The field will be blank for Non Depository Schemes.
ISIN	This field contains ISIN number of the scheme.
WarningPercent	This field contains the Folio Number length, applicable to the scheme.The valid values will be 1 to 16.
Eligibility	The flag is set to '1' for Spot market.
Status	This field contains one of the following values: • '2' - Open • '3' - Suspended
AMCCode	This field specifies the AMC code of the scheme
CategoryCode	This field specifies the category code of the scheme
Name	This field contains the scheme name.
IssueRate	Reserved for Future Use. It is always 0.
MinPhyAddlSubscrValueLimit	This field contains the min Physical subscription amount limit for additional purchase
BuyNAVPrice	This field specifies the subscription NAV price of the scheme.
SellNAVPrice	This field specifies the redemption NAV price of the scheme
RtAgentCode	This field specifies the RT Agent code of the scheme
ValDecIndicator	This field specifies the decimal value applicable for the NAV price. This specifies the NAV decimal indicator.
CatStartTime	This field specifies the category start time
QtyDecIndicator	This field specifies the decimal indicator for quantity.
CatEndTime	This field specifies the category end time
MinPhyFreshSubscrValueLmt	This field contains the min subscription amount limit for physical fresh purchase
MaxPhyRedempValueLimit	This field specifies the max value allowed for the scheme. This is applicable for Physical Redemption orders.
NavDate	This field contains NavDate

Field Name	Description
SecDepMandatory	• This field is true for a mandatory depository scheme. • This field is false if a scheme is allowed only for physical transaction. 1 – True 0 – False Please refer the following table for the relation between SecDepMandatory and SecAllowDep fields.
SecDividend	This field is true for a dividend fund. 1 – True 0 - False
SecAllowDep	This field is true if a scheme is applicable for both depository and physical transaction. This field is false if a scheme is allowed only for physical transaction. 1 – True 0 - False
SecAllowSell	If this field is true then only sell orders are allowed on the scheme. 1 – True 0 - False
SecModCxl	If this field is true then only further order modifications and cancellations are allowed on the scheme. 1 – True 0 - False
SecAllowBuy	If this field is true then only buy orders are allowed on the scheme. 1 – True 0 - False
MinPhyRedempValLmt	This field contains the minimum redemption value limit specific to a scheme. This limit is applicable for both physical. The value is interms of paise. Default value is 0
MinPhyRedempQtyLmt	This field contains the minimum redemption quantity limit specific to a scheme. This limit is applicable for both physical orders. Default value is 0.

Field Name	Description
	For e.g., if the qty limit is 123.45, this field will contain the value as 12345.
Purpose	This field contains the EGM / AGM / Interest / Bonus / Rights / Dividend flags set depending on the corporate action.
LocalUpdateDateTime	This field contains the local database update date and time.
DeleteFlag	This indicates whether the security is deleted or not. • ' N ' – Active • ' Y ' – Deleted
Remark	Remarks.
MaxPhyFreshSubscrValueLimit	This field contains the maximum physical fresh subscription value limit specific to a scheme.
MaxPhyAddlSubscrValueLimit	This field contains the maximum physical Additional subscription value limit specific to a scheme.
MaxDepFreshSubscrValueLimit	This field contains the maximum Depository fresh subscription value limit specific to a scheme.
MaxDepAddlSubscrValueLimit	This field contains the maximum depository Additional subscription value limit specific to a scheme.
MinDepFreshSubscrValueLimit	This field contains the minimum depository fresh subscription value limit specific to a scheme.
MinDepAddlSubscrValueLimit	This field contains the minimum depository Additional subscription value limit specific to a scheme.
MaxDepRedempQtyLimit	This field contains the maximum depository redemption Quantity limit specific to a scheme.
MinDepRedempQtyLimit	This field contains the minimum depository redemption Quantity limit specific to a scheme.
PhySubscrAmountMultiple	This field contains the physical Subscription amount multiple specific to a scheme.
DepSubscrAmountMultiple	This field contains the depository Subscription amount multiple specific to a scheme.
SIPEligibility	This field specifies whether a scheme is eligible for SIP or not. The values are 'Y' – Eligible 'N' – Ineligible
AMCName	This field specifies the AMC Name of the scheme

Field Name	Only Physical	Physical / Depository	Only Depository
SecDepMandatory	0 - False	0 – False	1 – True
SecAllowDep	0 - False	1 – True	0 - False

Change of Security Status

This message is sent whenever the status of any security changes. The structure sent is:

Table 30 SECURITY_UPDATE_INFORMATION

Structure Name	SECURITY_UPDATE_INFORMATION		
Transaction code	BCAST_SECURITY_STATUS_CHG (7320) OR BCAST_SECURITY_STATUS_CHG_PREOPEN (7210)		
Packet Length	470 bytes		
Field Name	Data Type	Size in Byte	Offset
MESSAGE HEADER (Refer Table 1)	STRUCT	38	0
NumberOfRecords	SHORT	2	38
TOKEN AND ELIGIBILITY [43] (Refer Table 30.1)	STRUCT	430	40

Table 30.1 TOKEN AND ELIGIBILITY

Structure Name	TOKEN AND ELIGIBILITY		
Packet Length	10 bytes		
Field Name	Data Type	Size in bytes	Offset
Token	SHORT	2	0
SECURITY STATUS PER MARKET [4] (Refer Table 30.2)	STRUCT	8	2

Table 30.2 SECURITY STATUS PER MARKET

Structure Name	SECURITY STATUS PER MARKET		
Packet Length	2 bytes		
Field Name	Data Type	Size in bytes	Offset
Status	SHORT	2	0

Change of Market Status

Whenever the status of the market changes, the following structure is sent:

Table 31 BCAST_VCT_MESSAGES

Structure Name	BCAST_VCT_MESSAGES		
Transaction code	BC_CLOSE_MSG (6521) / BC_OPEN_MSG (6511)		
Packet Length	295 bytes		
Field Name	Data Type	Size in Byte	Offset
BCAST_HEADER (Refer Table 2)	STRUCT	38	0
SECURITY_INFORMATION(Refer Table 31.1)	STRUCT	12	38
MarketType	SHORT	2	50
BROADCAST DESTINATION (Refer Table 31.2 & Table 31.3)	STRUCT	2	52
BroadcastMessageLength	SHORT	2	54
BroadcastMessage [239]	CHAR	239	56

Table 31.1 SECURITY_INFORMATION

Structure Name	SECURITY_INFORMATION		
Packet Length	12 bytes		
Field Name	Data Type	Size in Byte	Offset
Symbol[10]	CHAR	10	0
Series[2]	CHAR	2	10

For Small Endian Machines:

Table 31.2 BROADCAST DESTINATION

Structure Name	BROADCAST DESTINATION		
Packet Length	2 bytes		
Field Name	Data Type	Size in bits	Offset
Reserved	BIT	7	0
TraderWs	BIT	1	0
Reserved	CHAR	8	1

For Big Endian Machines:

Table 31.3 BROADCAST DESTINATION

Structure Name	BROADCAST DESTINATION		
Packet Length	2 bytes		
Field Name	Data Type	Size in bits	Offset
Reserved	BIT	1	0
TraderWs	BIT	7	0
Reserved	CHAR	8	1

Broadcast Circuit Check

If there has been no data on the broadcast circuit for a stipulated time period, then a pulse is sent. This time is nine seconds now but it can be changed by NSE – Control. This is only to intimate that the circuit is still there but there is no data to send. The structure sent is:

MESSAGE HEADER (Refer to Table1 in Chapter 2)

Field Name	Description
TransactionCode	The transaction code sent is BC_CIRCUIT_CHECK (6541).

Note:

In the invitation packet, the following fields are to be used

1. Transaction Code field
2. Message length field
3. Invitation Count Field

Other of the fields of this packet is reserved and are to be ignored while processing.

Exception handling for invitation packet

In case of any exception while processing the 'invitation packet' the connection should be dropped. A new connection needs to be established by the front end with the CL.

Appendix

List of Error Codes

Error Code ID	Error Code Value	Description of Error Numbers
ERR_MARKET_NOT_OPEN	16000	The trading system is not available for trading.
ERR_INVALID_BRANCH ERR_BAD_TRANSACTION_CODE	16001 16003	Erroneous transaction code received.
ERR_USER_ALREADY_SIGNED_ON	16004	User already signed on.
ERR_INVALID_SIGNON	16006	Invalid sign-on, Please try again.
ERR_SIGNON_NOT_POSSIBLE	16007	Signing on to the trading system is restricted. Please try later on.
ERR_INVALID_SYMBOL	16012	Invalid symbol/series.
ERR_SECURITY_NOT_AVAILABLE	16035	Security is unavailable for trading at this time. Please try later.
ERR_INVALID_BROKER_OR_BRANCH	16041	Trading Member does not exist in the system.
ERR_USER_NOT_FOUND	16042	Dealer does not exist in the system.
ERR_PASSWORD_HAS_EXPIRED	16053	Your password has expired, must be changed.
ERR_INVALID_BRANCH	16054	Branch does not exist in the system.
ERR_PROGRAM_ERROR	16056	Program error.
ERR_INVALID_BUYER_USER_ID	16098	Invalid trader ID for buyer.
ERR_INVALID_SELLER_USER_ID	16099	Invalid trader ID for seller.
ERR_SYSTEM_ERROR	16104	System could not complete your transaction - ADMIN notified.
ERR_CANT_COMPLETE_YOUR_REQUEST	16123	System not able to complete your request. Please try again.
ERR_USER_IS_DISABLED	16134	This Dealer is disabled. Please call the Exchange.
ERR_INVALID_USER_ID	16148	Invalid Dealer ID entered.

Error Code ID	Error Code Value	Description of Error Numbers
ERR_INVALID_TRADER_ID	16154	Invalid Trader ID entered.
ERR_NOT_FOUND	16273	Does not exist.
ERR_MARKETS_CLOSED	16278	The markets have not been opened for trading.
ERR_BROKER_NOT_ACTIVE	16285	The broker is not active.
ERR_TRG_PRICE_NOT_MULT_TICK_SIZE	16316	The trigger price is not a multiple of tick size.
ERR_MF_NOT_MULT_BOARD_LOT	16322	MF quantity is not a multiple of regular lot.
AMC_SCHEME_CODE_NULL	16327	AMC Scheme code is null.
RT_SCHEME_CODE_NULL	16328	RT Scheme code is null
ERR_BROKER_NOT_PERMITTED_IN_MKT	16329	Trading Member not permitted in the market.
ERR_SECURITY_IS_SUSPENDED	16330	Security is suspended.
ERR_BRANCH_LIMIT_EXCEEDED	16333	Branch Order Value Limit is exceeded.
OE_ORD_CAN_CHANGED	16343	The order to be cancelled has changed.
OE_ORD_CANNOT_CANCEL	16344	The order cannot be cancelled.
OE_ORD_CANNOT_MODIFY	16346	Order cannot be modified.
ERR_TRADING_NOT_ALLOWED	16348	Trading is not allowed in this market.
ERR_USER_TYPE_INQUIRY	16372	Order entry not allowed for user as it is of inquiry type.
ERR_NO_TRADING_IN_SECURITY	16387	Security is not allowed to trade in this market.
ERR_WRONG_LOGIN_ADDRESS	16403	You are trying to sign on from a different location. Sign on is not allowed.
ERR_INVALID_BUY_SELL	16413	Requested by can be BUY or SELL or BOTH.
ERR_INVALID_INST	16414	Invalid combination of book type and instructions (order_type).

Error Code ID	Error Code Value	Description of Error Numbers
ERR_NNF_REQ_EXCEEDED	16417	Number of NNF requests exceeded.
ERR_INVALID_ORDER	16418	Order entered has invalid data.
ERR_INVALID_ALPHA_CHAR	16420	Alpha char must be the same as first two chars of symbol.
ERR_INVALID_BOOK_TYPE	16422	Book type should be between 6(SP)
ERR_INVALID_MSG_LENGTH	16424	Message length is invalid.
NNF_REQUESTS_EXCEEDED	16417	Number of NNF requests within a given time has exceeded.
ORDER_NOT_FOUND	16060	Modified/Cancelled order not found
ORDER_VALUE_EXCEEDS_ORDER_VALUE_LIMIT	16442	The current placed order's value is more than users order value limit
ORDER_VALUE_LIMIT_EXCEEDED	16436	The order value limit has exceeded
AMC_CODE_NULL	16453	AMC Code is null
RTA_CODE_NULL	16454	RT Agent Code is null
CATEGORY_CODE_NULL	16455	Category Code is null
INVALID_RTA_CODE	16456	RT Agent Code does not exist in the system
INVALID_SUBSCRIPTION_AMOUNT	16459	The subscription amount entered is greater than value_limit of scheme. or the subscription amount entered is less than minimum subscription amount additional for additional purchase. or the subscription amount entered is less than minimum subscription amount fresh for fresh purchase.
INVALID_DEPOSITORY	16460	If depository settlement is 'Y' and if any of DepositoryID or

Error Code ID	Error Code Value	Description of Error Numbers
		DepositoryClientID or DepositoryCode is blank.
INVALID_FOLIO_NO	16461	If FolioNumber is null with DepositorySettlement as 'N' for a sell order **or** FolioNumber is not null with DepositorySettlement as 'N' for fresh subscription. **or** FolioNumber is null with DepositorySettlemet as 'N' for additional subscription.
INVALID_QUANTITY	16462	Quantity is 0 for a redemption order with depository settlement as 'Y'. **or** quantity is more than qty limit set at host for the scheme for a sell order. **or** number of digits after decimal for quantity is more than quantity decimal indicator for a sell order.
INVALID_REDEMPTION_AMOUNT	16463	Total redemption is 'N' and sell order amount is greater than value limit set in at host for the scheme for a sell order.
INVALID_CLIENT_DETAILS	16464	If any of the client details entered is invalid.
INVALID_AMC_CODE	16465	AMC Code entered does not exist at host for the scheme.
INVALID_CATEGORY_CODE	16466	Category Code entered does not exist at host for the scheme.
INVALID_AMC_SCHEME_CODE	16467	AMC Code entered does not exist at host for the scheme.
INVALID_RT_SCHEME_CODE	16468	RTA Code entered does not exist at host for the scheme.
INVALID_TOTAL_REDEMPTION	16469	TotalRedemption flag is not 'N' for a buy order. **or**

Error Code ID	Error Code Value	Description of Error Numbers
		TotalRedemption is not 'N' with DepositorySettlement 'Y' for a sell order.
INVALID_PURCHASE_TYPE	16470	PurchaseType is not equal to 1 or 2 for a buy order. **or** PurchaseType is not equal to 0 for a sell order.
INVALID_QTY_OR_RED	16471	DepositorySettlement is 'N' for a sell order with amount not equal to 0 and quantity is not equal to 0 **or** TotalRedemption not equal to 'N'.
INVALID_AMOUNT_OR_RED	16472	DepositorySettlement is 'N' for a sell order with quantity not equal to 0 and amount is not equal to 0 **or** TotalRedemption not equal to 'N'.
INVALID_AMOUNT_OR_QTY	16473	DepositorySettlement is 'N' for a sell order with TotalRedemption not equal to 'N'and amount not equal to 0 or quantity not equal to 0.
CATEGORY_CLOSED	16500	Order entry/mod/cxl time is out of category operating time.
ALLOW_BUY	16552	Buy orders are not allowed on this scheme.
ALLOW_SELL	16445	Sell orders are not allowed on this scheme.
MODCXL	16444	Order entry is not allowed in this session
SIP_NOT_ALLOWED_WITH_MFSS	16515	SIP Registrations are not allowed in MFSS TS
SIP_NOT_ALLOWED_WITH_CAT	16516	SIP Registrations are not allowed for category
SIP_NOT_ALLOWED_WITH_AMC	16517	SIP Registrations are not allowed for AMC
SIP_NOT_ALLOWED_WITH_SCHEME	16518	SIP Registrations are not allowed for Scheme
PHY_SUB_AMOUNT_NOT_MULTIPLE	16519	Physical Subscr amount is not an multiple of SIP_SUBSCR_AMOUNT_MULTIPLE

Error Code ID	Error Code Value	Description of Error Numbers
DEP_SUB_AMOUNT_NOT_MULTIPLE	16521	Depository Subscr amount is not an multiple of SIP_SUBSCR_AMOUNT_MULTIPLE
SIP_NOT_FOUND	16522	SIP not found
SIP_NOT_OF_THIS_USER	16523	SIP Not of this user
SIP_CANNOT_BE_CANCELLED	16524	SIP cannot be cancelled
SIP_INVALID_ORDER	16525	Invalid Order
SIP_NOT_ALLOWED_FOR_PERIOD	16526	SIP Not allowed for this period
SIP_NOT_ALLOWED_FOR_MONTH_YR	16527	SIP Not allowed for this Month
SIP_FREQUENCY_NOT_AVAILABLE	16528	SIP Frequency not available
SIP_NOT_ALLOWED_FOR_DAYS_DATE	16529	SIP Not allowed for this Days/Dates
SIP_AMOUNT_LESS_THAN_MINIMUM	16530	SIP amount less than minimum amount
SIP_AMOUNT_GRTR_THAN_MAXIMUM	16531	SIP amount greater than minimum amount
SIP_AMOUNT_LESS_THAN_MIN_TTL	16532	SIP amount less than minimum total amount
SIP_INVALID_TRANCHE_NUMBER	16534	Invalid SIP tranche number
INVALID_EX_DATE	16457	Invalid NFO Date(Order date falls outside NFO period)
ACCOUNT_DEBARRED	16570	The Account is Debarred by Exchange

Reason Codes

The reason codes and the corresponding values are given below.

Reason Code	Value
Security	5
Broker	6
Branch	7
User	8
Category	9
AMC_TM	10
Order Number	11

MFSS_SIP	29
AMC_SIP	30
CAT_SIP	31
SCHEME_SIP	32
FREQUENCY	33
PERIOD	34
MONTH_YR	35
DAYS_DATE	36
SIP_MIN_AMT	37
SIP_MAX_AMT	38
SIP_AMT_MUL	39
SIP_MIN_TTL_AMT	40
SIP_TRANCHE	41
SIP_CANCEL	42
SIP_REG_NUMBER	43

List of Transaction Codes

Transaction Code	Code	Structure	Size	I/B*
SYSTEM_INFORMATION_IN	1600	MESSAGE_HEADER	38	I
SYSTEM_INFORMATION_OUT	1601	SYSTEM_INFORMATION_DATA	84	I
SPOT_IN	2002	ORDER_ENTRY_REQUEST	950	I
SPOT_ OUT	2003	ORDER_ENTRY_REQUEST	950	I
ORDER_MOD_IN	2040	ORDER_ENTRY_REQUEST	950	I
ORDER_MOD_OUT	2041	ORDER_ENTRY_REQUEST	950	I
ORDER_MOD_REJECT	2042	ORDER_ENTRY_REQUEST	950	I
ORDER_CANCEL_IN	2070	ORDER_ENTRY_REQUEST	950	I
ORDER_CANCEL_OUT	2071	ORDER_ENTRY_REQUEST	950	I
ORDER_CANCEL_REJECT	2072	ORDER_ENTRY_REQUEST	950	I
ORDER_CONFIRMATION	2073	ORDER_ENTRY_REQUEST	950	I
ORDER_MOD_CONFIRMATION	2074	ORDER_ENTRY_REQUEST	950	I
ORDER_CANCEL_CONFIRMATION	2075	ORDER_ENTRY_REQUEST	950	I
ORDER_ERROR	2231	ORDER_ENTRY_REQUEST	950	I
SIGN_ON_REQUEST_IN	2300	SIGNON_IN	182	I
SIGN_ON_REQUEST_OUT	2301	SIGNON OUT	182	I
		ERROR_RESPONSE	178	
SIGN_OFF_REQUEST_IN	2320	MESSAGE_HEADER	38	I
SIGN_OFF_REQUEST_OUT	2321	MESSAGE_HEADER	38	I
CTRL_MSG_TO_TRADER	5295	MS_TRADER_INT_MSG	285	B
BCAST_JRNL_VCT_MSG	6501	BROADCAST_MESSAGES	295	B
BC_OPEN_MESSAGE	6511	BCAST_VCT_MESSAGES	295	B
BC_CLOSE_MESSAGE	6521	BCAST_VCT_MESSAGES	295	B
BC_CIRCUIT_CHECK	6541	MESSAGE_HEADER	38	B
DOWNLOAD_REQUEST	7000	MESSAGE_DOWNLOAD	46	I
HEADER_RECORD	7011	MESSAGE_HEADER	38	I
MESSAGE_RECORD	7021	MESSAGE_HEADER	1024	I
TRAILER_RECORD	7031	MESSAGE_HEADER	38	I

Version 2.24

Transaction Code	Code	Structure	Size	I/ B*
UPDATE_LOCALDB_IN	7300	UPDATE_LOCAL_DATABASE	94	I
UPDATE_LOCALDB_DATA	7304	Packet of size >72 and <=1024	1024	I
BCAST_SECURITY_MSTR_CHG	7305	SECURITY_UPDATE_INFORMATIO N	412	I/ B
UPDATE_LOCALDB_HEADER	7307	MESSAGE_HEADER	40	I
UPDATE_LOCALDB_TRAILER	7308	MESSAGE_HEADER	40	I
BCAST_CAT_MSTR_CHG	7309	CATEGORY_UPDATE_INFORMATI ON	72	I
BCAST_SECURITY_STATUS_CHG	7320	SECURITY_STATUS_UPDATE_INFO RMATION	470	B
PARTIAL_SYSTEM_INFORMATION	7321	SYSTEM_INFORMATION_DATA	84	I
SIP_INQ_REQ	1762	SIP REGISTRATION DETAILS DOWNLOAD	77	I
SIP_INQ_HDR	1764	SIP REGISTRATION DETAILS DOWNLOAD _HEADER	40	I
SIP_INQ_RESP_DATA	1763	SIP REGISTRATION DETAILS DOWNLOAD DATA	954	I
SIP_INQ_TRLR	1765	SIP REGISTRATION DETAILS DOWNLOAD TRAILER	42	I
SIP_HIST_CXL_IN	2082	HIST SIP REGISTRATION CXL REQUEST	64	I
SIP_HIST_CXL_OUT	2083	HIST SIP REGISTRATION CXL RESPONSE	64	I
SIP_HIST_CXL_CONFIRM	2084	HIST SIP REGISTRATION CXL CONFIRM	90	I
BCAST_SIP_MSTR_CHG	7209	SIP_UPDATE_INFORMATION	106	I/ B

* Interactive/Broadcast

Quick Reference for Order Entry Parameters

The order flags are given below.

Order Terms:

      Modified   : input

Status	Market	Book Type	Order Terms and Other Characteristic Fields
Open	Spot Market	SP**	input
Close			Order entry is not allowed.

** Other input flags in the order terms are not allowed, hence should not be set.

Market Type

The market types are:

Status	Market Status ID
Spot Market	3***

** Other market types in the market type are not allowed hence should not be set.

Market Status

The market can be in one of the following statuses:

Status	Market Status ID
Open	1
Closed	2

Book Types

There are seven books. These books fall in four markets.

Book Type	Book ID	Market Type
Spot Order	6	Spot Market

Security Status

Status	Status ID
Open	2
Suspended	3

Activity Types

The activity types that are sent in reports are given below.

Activity Type	Description	Code
ORIGINAL_ORDER	This is the order that was entered.	1
ACTIVITY_ORDER_CANCEL	The order was cancelled.	3
ACTIVITY_ORDER_MODIFY	The order was modified.	4

Pipe Delimited File Structures

The upload files have a header record at the beginning of the file followed by the detail records.

All the fields in both the header and detail records are separated by pipe ('|').The fields are not

of fixed width. Any two fields are separated by a '|' symbol.

Security File Structure

Table 32 SECURITY FILE HEADER

Structure Name	SECURITY FILE HEADER		
Packet Length	19 bytes		
Field Name	Data Type	Size in bytes	Offset
NEATMF [6]	CHAR	6	0
Reserved	CHAR	1	6
VersionNumber [7]	CHAR	7	7
Reserved	CHAR	1	14
DATE	LONG	4	15

Field Name	Description
NEATMF	Text describes the MF market
VersionNumber	Version number of the system. The version number is 1.15.00
DATE	This field contains the time at which the file is generated in the system. This specifies the time at which the file is generated in seconds with reference from midnight January 1 1980

Table 33 Stock Structure

Structure Name	Stock Structure		
Packet Length	473 bytes		
Field Name	Data Type	Size in Byte	Offset
Header(Refer Table 32)	STRUCT	19	0
Token	SHORT	2	19
Reserved	CHAR	1	21
Symbol[10]	CHAR	10	22
Reserved	CHAR	1	32
Series[2]	CHAR	2	33
Reserved	CHAR	1	35
InstrumentType	SHORT	2	36
Reserved	CHAR	1	38
MaxPhyRedempQuantityLimit	DOUBLE	8	39
Reserved	CHAR	1	47
RtSchemeCode[5]	CHAR	5	48
Reserved	CHAR	1	53
AmcSchemeCode[10]	CHAR	10	54
Reserved	CHAR	1	64
SchemeDepCode	CHAR	1	65
Reserved	CHAR	1	66
Isin[12]	CHAR	12	67
Reserved	CHAR	1	79
WarningPercent	SHORT	2	80
Reserved	CHAR	1	82
ST_SEC_ELIGIBILITY_ PER_ MARKET[4](Refer Table 33.1)	STRUCT	20	83
Reserved	CHAR	1	103
AmcCode[3]	CHAR	3	104
Reserved	CHAR	1	107
CategoryCode[5]	CHAR	5	108
Reserved	CHAR	1	113

Name [75]	CHAR	75	114
Reserved	CHAR	1	189
IssueRate	SHORT	2	190
Reserved	CHAR	1	192
MinPhyAddlSubscrValueLimit	DOUBLE	8	193
Reserved	CHAR	1	201
BuyNAVPrice	LONG	4	202
Reserved	CHAR	1	206
SellNAVPrice	LONG	4	207
Reserved	CHAR	1	211
RtAgentCode[10]	CHAR	10	212
Reserved	CHAR	1	222
ValDecIndicator	LONG	4	223
Reserved	CHAR	1	227
CatStartTime	LONG	4	228
Reserved	CHAR	1	232
QtyDecIndicator	LONG	4	233
Reserved	CHAR	1	237
CatEndTime	LONG	4	238
Reserved	CHAR	1	242
MinPhyFreshSubscrValueLmt	DOUBLE	8	243
Reserved	CHAR	1	251
MaxPhyRedempValueLimit	DOUBLE	8	252
Reserved	CHAR	1	260
Reserved1	LONG	4	261
Reserved	CHAR	1	265
Reserved2	LONG	4	266
Reserved	CHAR	1	270
NavDate	LONG	4	271
Reserved	CHAR	1	275
Reserved4	LONG	4	276
Reserved	CHAR	1	280
Reserved5	CHAR	1	281
Reserved	CHAR	1	282
Reserved6	CHAR	1	283
Reserved	CHAR	1	284
Reserved7	CHAR	1	285
Reserved	CHAR	1	286
SecDepMandatory	CHAR	1	287
Reserved	CHAR	1	288
SecDividend	CHAR	1	289
Reserved	CHAR	1	290
SecAllowDep	CHAR	1	291
Reserved	CHAR	1	292
SecAllowSell	CHAR	1	293
Reserved	CHAR	1	294

SecModCxl	CHAR	1	295
Reserved	CHAR	1	296
SecAllowBuy	CHAR	1	297
Reserved	CHAR	1	298
MinPhyRedempValLmt	LONG	4	299
Reserved	CHAR	1	303
MinPhyRedempQtyLmt	LONG	4	304
Reserved	CHAR	1	308
Reserved14	CHAR	1	309
Reserved	CHAR	1	310
Reserved15	CHAR	1	311
Reserved	CHAR	1	312
Reserved16	CHAR	1	313
Reserved	CHAR	1	314
Reserved17	CHAR	1	315
Reserved	CHAR	1	316
Reserved18	CHAR	1	317
Reserved	CHAR	1	318
Reserved19	CHAR	1	319
Reserved	CHAR	1	320
Reserved20	CHAR	1	321
Reserved	CHAR	1	322
LocalDBUpdateDateTime	LONG	4	323
Reserved	CHAR	1	327
DeleteFlag	CHAR	1	328
Reserved	CHAR	1	329
Remarks [25]	CHAR	25	330
Reserved	CHAR	1	355
SIP_Eligibility	CHAR	1	356
Reserved	CHAR	1	357
Max Phy Fresh Subs Val Lmt	DOUBLE	8	358
Reserved	CHAR	1	366
Max Phy Addl Subs Val Lmt	DOUBLE	8	367
Reserved	CHAR	1	375
Max Dep Fresh Subs Val Lmt	DOUBLE	8	376
Reserved	CHAR	1	384
Max Dep Addl Subs Val Lmt	DOUBLE	8	385
Reserved	CHAR	1	393
Min Dep Fresh Subs Val Lmt	DOUBLE	8	394
Reserved	CHAR	1	402
Min Dep Addl Subs Val Lmt	DOUBLE	8	403
Reserved	CHAR	1	411
Max Dep Red Qty Lmt	DOUBLE	8	412
Reserved	CHAR	1	420
Min Dep Red Qty Lmt	DOUBLE	8	421
Reserved	CHAR	1	429

Multiple_for_phy_subs_amt	DOUBLE	8	430
Reserved	CHAR	1	438
Multiple_for_dep_subs_amt	DOUBLE	8	439
Reserved	CHAR	1	447
AMC_Name[25]	CHAR	25	448

Table 33.1 ST_SEC_ELIGIBILITY_ PER_ MARKET

Structure Name	ST_SEC_ELIGIBILITY_ PER_ MARKET		
Packet Length	5 bytes		
Field Name	Data Type	Size in bytes	Offset
Security Status	SHORT	2	0
Reserved	CHAR	1	2
Eligibility	CHAR	1	3
Reserved	CHAR	1	4

Field Name	Description
Token	This field contains the token number of the scheme being updated. This is unique for a particular symbol-series combination.
SecurityInformation	This field contains the Symbol and Series of the scheme.
InstrumentType	Reserved for Future Use. It is always 0.
MaxPhyRedempQuantityLimit	This field specifies the max quantity allowed for the scheme. This is applicable for Physical Redemption orders.
RtSchemeCode	This field specifies the RT Scheme code of the scheme
AmcSchemeCode	This field specifies the AMC Scheme code of the scheme
SchemeDepCode	This field conatins the scheme depository code. If the scheme is eligible for Depository settlement, the value will be N for NSDL only C for CDSL only B for Both NSDL/CDSL. The field will be blank for Non Depository Schemes.
ISIN	This field contains ISIN number of the scheme.

Field Name	Description
WarningPercent	This field contains the Folio Number Length applicable to a scheme. The Valid values would be 1 to 16
Eligibility	The flag is set to '1' for Spot market.
Status	This field contains one of the following values: • '2' - Open '3' - Suspended
AMCCode	This field specifies the AMC code of the scheme
CategoryCode	This field specifies the category code of the scheme
Name	This field contains the scheme name.
IssueRate	Reserved for Future Use. It is always 0.
MinPhyAddlSubscrValueLimit	This field contains the min subscription amount for additional purchase
BuyNAVPrice	This field specifies the subscription NAV price of the scheme
SellNAVPrice	This field specifies the redemption NAV price of the scheme
RtAgentCode	This field specifies the RT Agent code of the scheme
ValDecIndicator	This field specifies the decimal value applicable for the NAV price
CatStartTime	This field specifies the category start time
QtyDecIndicator	This field specifies the decimal indicator for quantity.
CatEndTime	This field specifies the category end time
MinPhyFreshSubscrValueLmt	This field contains the min subscription amount for fresh purchase
MaxPhyRedempValueLimit	This field specifies the max value allowed for the scheme. This is applicable for Physical Redemption orders.
Recorddate	This field contains the NFO End Date. This field consists either **date or zero.**(record_date consists in Reserved1 field of stock structure).
Exdate	This field contains the NFO Start Date. This field consists either **date or zero.** (ex_date consists in Reserved2 field of stock structure).

Field Name	Description
NavDate	This field contains NavDate
SecDepMandatory	This field is true for a mandatory depository scheme. This field is false if a scheme is allowed only for physical transaction.
SecDividend	This field is 1 for a dividend fund. 1 – Dividend fund 0 – Other funds
SecAllowDep	This field is true if a scheme is applicable for both depository and physical transaction. This field is false if a scheme is allowed only for physical transaction.
SecAllowSell	If this field is 1 then only sell orders are allowed on the scheme
SecModCxl	If this field is 1 then only further order modifications and cancellations are allowed on the scheme
SecAllowBuy	If this field is 1 then only buy orders are allowed on the scheme
MinPhyRedempValLmt	This field contains the minimum redemption value limit specific to a scheme. This limit is applicable for both physical and depository redemption orders. The value is interms of paise. Default value is 0
MinPhyRedempQtyLmt	This field contains the minimum redemption quantity limit specific to a scheme. This limit is applicable for both physical and depository redemption orders. Default value is 0 For e.g., if the qty limit is 123.45, this field will contain the value as 12345.
LocalUpdateDateTime	This field contains the local database update date and time.
DeleteFlag	This indicates whether the security is deleted or not. • ' N ' – Active' Y ' – Deleted
Remark	Remarks.
MaxPhyFreshSubscrValueLimit	This field contains the maximum physical fresh subscription value limit specific to a scheme.
MaxPhyAddlSubscrValueLimit	This field contains the maximum physical Additional subscription value limit specific to a scheme.
MaxDepFreshSubscrValueLimit	This field contains the maximum Depository fresh subscription value limit specific to a scheme.

125

Field Name	Description
MaxDepAddlSubscrValueLimit	This field contains the maximum depository Additional subscription value limit specific to a scheme.
MinDepFreshSubscrValueLimit	This field contains the minimum depository fresh subscription value limit specific to a scheme.
MinDepAddlSubscrValueLimit	This field contains the minimum depository Additional subscription value limit specific to a scheme.
MaxDepRedempQtyLimit	This field contains the maximum depository redemption Quantity limit specific to a scheme.
MinDepRedempQtyLimit	This field contains the minimum depository redemption Quantity limit specific to a scheme.
PhySubscrAmountMultiple	This field contains the physical Subscription amount multiple specific to a scheme.
DepSubscrAmountMultiple	This field contains the depository Subscription amount multiple specific to a scheme.
SIPEligibility	This field specifies whether a scheme is eligible for SIP or not. The values are 'Y' – Eligible 'N' – Ineligible
AMCName	This field specifies the AMC Name of the scheme

Category File Structure

Table 34 CATEGORY FILE HEADER

Structure Name	CATEGORY FILE HEADER		
Packet Length	19 bytes		
Field Name	Data Type	Size in bytes	Offset
NEATMF [6]	CHAR	6	0
Reserved	CHAR	1	6
VersionNumber [7]	CHAR	7	7
Reserved	CHAR	1	14
DATE	LONG	4	15

Field Name	Description
NEATMF	Text describes the MF market
VersionNumber	Version number of the system. The version number is 1.15.00
DATE	This field contains the time at which the file is generated in the system. This specifies the time at which the file is generated in seconds with reference from midnight January 1 1980

Table 35 CATEGORY FILE STRUCTURE

Structure Name	Category File Structure		
Packet Length	55 bytes		
Field Name	Data Type	**Size in Byte**	**Offset**
Header(Refer Table 34)	STRUCT	19	0
CategoryCode[5]	CHAR	5	19
Reserved	CHAR	1	24
CategoryName[25]	CHAR	25	25
Reserved	CHAR	1	50
LocalUpdateDateTime	LONG	4	51

Field Name	Description
NEATMF	Text describes the MF market
VersionNumber	Version number of the system. The version number is 1.15.00
DATE	This field contains the time at which the file is generated in the system. This specifies the time at which the file is generated in seconds with reference from midnight January 1 1980

Field Name	Description

CategoryCode	This field contains the unique Category Code for each category.
CategoryName	This field contains the name of the category.
LocalUpdateDateTime	This field contains the time when the category information was changed. It is in number of seconds from January 1, 1980.

SIP File Structure

Table 36 SIP FILE HEADER

Structure Name	SIP FILE HEADER		
Packet Length	19 bytes		
Field Name	Data Type	Size in bytes	Offset
NEATMF [6]	CHAR	6	0
Reserved	CHAR	1	6
VersionNumber [7]	CHAR	7	7
Reserved	CHAR	1	14
DATE	LONG	4	15

Field Name	Description
NEATMF	Text describes the MF market
VersionNumber	Version number of the system. The version number is 1.15.00
DATE	This field contains the time at which the file is generated in the system. This specifies the time at which the file is generated in seconds with reference from midnight January 1 1980

Table 37 SIP FILE STRUCTURE

Structure Name	SIP FILE STRUCTURE		
Packet Length	242 bytes		
Field Name	Data Type	Size in Byte	Offset
Header(Refer Table 36)	STRUCT	19	0
Token	SHORT	2	19
Reserved	CHAR	1	21

Symbol[10]	CHAR	10	22
Reserved	CHAR	1	32
Series[2]	CHAR	2	33
Reserved	CHAR	1	35
Frequency_Number	SHORT	2	36
Reserved	CHAR	1	38
Freq_Eligiblity	CHAR	1	39
Reserved	CHAR	1	40
Periods [120]	CHAR	120	41
Reserved	CHAR	1	161
Months[12]	CHAR	12	162
Reserved	CHAR	1	174
Date_Days[31]	CHAR	31	175
Reserved	CHAR	1	206
SIP_frequency_multiple	SHORT	2	207
Reserved	CHAR	1	209
SIP Min Amount	LONG	4	210
Reserved	CHAR	1	214
SIP Max Amount	DOUBLE	8	215
Reserved	CHAR	1	223
SIP Multiple	SHORT	2	224
Reserved	CHAR	1	226
SIP_Min_total_amt	DOUBLE	8	227
Reserved	CHAR	1	235
LocalDBUpdateDateTime	LONG	4	236
Reserved	CHAR	1	240
Delete Flag	CHAR	1	241

Field Name	Description
Token	This field contains the token number of the scheme SIP being updated. This is unique for a particular symbol-series combination.
Security Information	This field contains the Symbol and Series of the scheme SIP.
FrequencyNumber	This field contains the frequency of the SIP. **The values are:** 1 - Weekly 2 - Monthly 3 - Quarterly 4 - Semi Anually 5 - Anually
FrequencyEligibility	This field indicates whether the SIP is eligible in that particular frequency or not. **Flag Value:** Y - Eligible N - Ineligible

Periods	The various Durations in months available for the SIP. **Values:** Y - Eligible in that particular period N - Ineligible in that particular period
Months	The Various month combinations in the case of Quarterly and SemiAnually frequencies or various months available in the case of Anually frequency for the SIP. **For Quarterly:** 1 Char - J-A-J-O 2 Char - F-M-A-N 3 Char - M-J-S-D **For Semi Anually:** 1 Char - J-J 2 Char - F-A 3 Char - M-S 4 Char - A-O 5 Char - M-N 6 Char - J-D **For Anually:** 1 Char - Jan 2 Char - Feb etc upto… 12 Char - Dec
DaysOrDates	The Various Days available in the Weekly frequency or the various dates available in the case of other frequencies. **For Weekly:** 1 Char - Mon 2 Char - Tue etc upto… 5 Char Fri **For Other Frequencies:** 1 Char - 1st 2 Char - 2nd etc upto… 31 Char - 31st
SIPFrequencyMultiple	This factor indicates the multiple of SIP frequency.
SIPMinimumAmount	The minimum registration amount applicable for the SIP for the corresponding frequency

SIPMaximumAmount	The maximum registration amount applicable for the SIP for the corresponding frequency
SIPMultiple	The SIP Amount multiple applicable for the SIP for the corresponding frequency
SIPMinimumTotal Amount	The minimum total registration amount inclusive of all the transactions on the SIP
LocalUpdateDateTime	This field contains the time when the category information was changed. It is in number of seconds from January 1, 1980.
DeleteFlag	This field indicates that corresponding SIP frequency details are deleted in the system

Order Entry Rules

Required values for various fields for different types of orders are given in the document attached –
1. Fresh Purchase - Physical
2. Additional Purchase - Physical
3. Depository Purchase – (Fresh / Additional)
4. Redemption - Physical
5. Redemption - Depository

1. Fresh Purchase - Physical

Field Name	Type	Length / Format	Remarks	Fresh Purchase(First Investment) - Physical
SYMBOL	CHAR	10	Mandatory field	Symbol
SERIES	CHAR	2	Mandatory field	Series
SUSPENDED	CHAR	1		Should be 'N'
CATEGORY_CODE	CHAR	5	Mandatory field	Category Code
AMC_CODE	CHAR	3	Mandatory field	AMC Code
AMC_SCHEME_CODE	CHAR	10	Mandatory field	AMC Scheme Code
RT_AGENT_CODE	CHAR	10	Mandatory field	RTA Code
RT_SCHEME_CODE	CHAR	5	Mandatory field	RTA Scheme Code
ORDER_NUMBER	DOUBLE			Field should be zero.
APPL_NUMBER	CHAR	10	Optional	Application No

BOOK	SHORT		Always 6 for spot market	6
BUY_SELL	SHORT		1-Purchase 2-Redemption	1
PURCHASE_TYPE	SHORT		1-Fresh Purchase 2-Additional Purchase 0-Redemption orders 3- SIP Purchase	1
AMOUNT	DOUBLE		The amount value should not contain any decimal part. The amount value should be less than Rs 1 Crore. For Liquid funds, the amout can be greater than Rs 1Crore	Amount

QUANTITY	DOUBLE		Case1: If the value of qty decimal indicator is 0, then qty for redemption can accept maximum of 99999999999999. Case2: If the value of qty decimal indicator is 1, then qty for redemption can accept maximum of 9999999999999.9. Case3: If the value of qty decimal indicator is 2, then qty for redemption can accept maximum of 999999999999.99. Case4: If the value of qty decimal indicator is 3, then qty for redemption can accept maximum of 99999999999.999. If the value of qty decimal indicator is 4, then qty for redemptioncan accept maximum of 9999999999.9999.	Field should be zero.
TOTAL_REDEMPTION	CHAR	1	It will always be blank	Null

DIVIDEND_MECHANISM	CHAR	1	Applicable only to dividend scheme. The series of a dividend scheme would be DP - Dividend Payout DR - Dividend Reinvest. For a growth scheme, the series would be GR. The fields should be sent as P - Payout R - Reinvest or Null	For Series:DP, should be sent as P For Series:DR, should be sent as R For Other series, should be sent as null
ENTRY_DATE_TIME	LONG		This field should be set to zero while sending the order entry request.	should be set to 0.
LAST_MODIFIED_DT_TIME	LONG		This field should be set to zero while sending the order entry request. If the order has been modified, this field contains the time when the order was last modified.	should be set to 0.
ATO (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
MKT (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
ON_STOP (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
DAY (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
GTC (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
FOK (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
AON (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
MF (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
MATCHED_INDICATOR (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.

TRADED (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
MODIFIED	BIT	1	It will be '1'b for modified order Otherwise it will be '0'b	1'b - If Modified '0'b - If Not Modified
FROZEN (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
PREOPEN_MATCH (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
ORDER_CTRL_FLAG (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
DEPOSITORY_SETTLEMENT	CHAR	1	It will be 'Y' if settlement is through depository for order otherwise it will be 'N'	N
DEP_ID	CHAR	8	This field should be of 8 digits.	Null
DEP_CLIENT_ID	CHAR	16	This field should be of 8 digits.	Null
DEP_CODE	CHAR	8	It will be 'NSDL/CDSL' if settlement is through depository based upon the SchemeDepCode	Null
FOLIO_NUMBER	CHAR	16	The length of Folio number field should be less than or equal to folio number length applicable for that scheme, specified in scheme master.	Null
MODE_OF_HOLDING	CHAR	2	SI - single JO - Joint AS - Anyone/Survivor	SI, JO or AS
CLIENT_CODE(1)	CHAR	10	Mandatory field	Client Code 1
CLIENT_CODE(2)	CHAR	10	If MODE_OF_HOLDING - JO/AS , Client details 2 is mandatory. Client Details 3 is optional.	Client Code 2

CLIENT_CODE(3)	CHAR	10	If MODE_OF_HOLDING - JO/AS , Client details 2 is mandatory. Client Details 3 is optional.	Client Code 3
CLIENT_NAME1	CHAR	70	Mandatory field	Client Name 1
CLIENT_NAME2	CHAR	35	If MODE_OF_HOLDING - JO/AS , Client details 2 is mandatory. Client Details 3 is optional.	Client Name 2
CLIENT_NAME3	CHAR	35	If MODE_OF_HOLDING -JO/AS , Client details 2 is mandatory. Client Details 3 is optional.	Client Name 3
PAN_NUMBER(1)	CHAR	10	Mandatory field	PAN Number 1
PAN_NUMBER(2)	CHAR	10	If MODE_OF_HOLDING - JO/AS , Client details 2 is mandatory. Client Details 3 is optional.	PAN Number 2
PAN_NUMBER(3)	CHAR	10	If MODE_OF_HOLDING -JO/AS , Client details 2 is mandatory. Client Details 3 is optional.	PAN Number 3
KYC_COMPLAINT(1)	CHAR	1	Mandatory Field Y N	KYC Compliant 1
KYC_COMPLIANT(2)	CHAR	1	If MODE_OF_HOLDING - JO/AS , Client details 2 is mandatory. Client Details 3 is optional.	KYC Compliant 2
KYC_COMPLIANT(3)	CHAR	1	If MODE_OF_HOLDING - JO/AS , Client details 2 is	KYC Compliant 3

			mandatory. Client Details 3 is optional.	
OCCUPATION	SHORT		1 - BUSINESS 2 - SERVICE 3 - PROFESSIONAL 4 - AGRICULTURE 5 - RETIRED 6 - HOUSEWIFE 7 - STUDENT 8 - OTHERS	Occupation Code
TAX_STATUS	SHORT		1 - INDIVIDUAL 2 - ON BEHALF OF MINOR 3 – HUF 4 – Corporate 5- NRE 6- NRO	Tax Status
ADDRESS_LINE(1)	CHAR	40		Address Line 1
ADDRESS_LINE(2)	CHAR	40		Address Line 2
ADDRESS_LINE(3)	CHAR	40		Address Line 3
CITY	CHAR	35		City

STATE	CHAR	2	UC-Uttranchal MP-Madhya Pradesh GOA-Goa UP-Uttar Pradesh AP-Andhra Pradesh TN-Tamil Nadu SI-Sikkim AS-Assam WB-West Bengal GU-Gujarat MA-Maharashtra HP-Himachal Pradesh MN-Manipur OR-Orissa PO-Pondichery ME-Meghalaya RA-Rajasthan PU-Punjab MI-Mizoram AN-Andaman & Nicobar NA-Nagaland TR-Tripura AR-Arunachal Pradesh BH-Bihar CH-Chandigarh HA-Haryana ND-New Delhi CG-Chattisgarh JK-Jharkhand KA-Karnataka KE-Kerala DL-DELHI JM-JAMMU & KASMIR	State
GENDER	CHAR	1	M - MALE F - FEMALE	M/F Should be blank; if the tax status is 4 (Corporate)
PINCODE	LONG			Pin Code
PHONE_NUMBER_OFF	CHAR	8		Phone Number - office

PHONE_NUMBER_RES	CHAR	8		Phone Number - Residence
MOBILE_NUM	CHAR	10		Mobile Number
EMAIL_ID	CHAR	50		Email Id
BANK_NAME	CHAR	40	ABHYUDAYA CO-OP BANK LTD ABN AMRO BANK ABU DHABI COMMERCIAL BANK ALLAHABAD BANK ANDHRA BANK AXIS BANK BANK OF AMERICA BANK OF BAHRAIN AND KUWAIT BANK OF BARODA BANK OF CEYLON BANK OF INDIA BANK OF MAHARASHTRA BANK OF TOKYO-MITSUBISHI UFJ LTD. BARCLAYS BANK PLC BNP PARIBAS CALYON BANK CANARA BANK CATHOLIC SYRIAN BANK LTD. CENTRAL BANK OF INDIA Citibank Na CITIZENCREDIT CO-OPERATIVE BANK LTD CITY UNION BANK LTD CORPORATION BANK DBS BANK LTD DENA BANK DEUTSCHE BANK DEVELOPMENT CREDIT BANK LIMITED DOMBIVLI NAGARI SAHAKARI BANK LIMITED	Bank Name

			HDFC BANK LTD. HSBC ICICI BANK LTD IDBI BANK LTD INDIAN BANK INDIAN OVERSEAS BANK INDUSIND BANK LTD ING VYSYA BANK LTD JANAKALYAN SAHAKARI BANK LTD JPMORGAN CHASE BANK N.A KAPOLE CO OP BANK KARNATAKA BANK LTD KARUR VYSYA BANK KOTAK MAHINDRA BANK KOTAK MAHINDRA BANK MAHANAGAR CO-OP BANK LTD MAHARASHTRA STATE CO OPERATIVE BANK MASHREQBANK PSC NEW INDIA CO-OPERATIVE BANK LTD. NKGSB CO-OP BANK LTD NUTAN NAGARIK SAHAKARI BANK LTD OMAN INTERNATIONAL BANK SAOG ORIENTAL BANK OF COMMERCE PARSIK JANATA SAHAKARI BANK LTD PUNJAB AND MAHARASHTRA CO-OP BANK LTD. PUNJAB AND SIND BANK PUNJAB NATIONAL BANK	

			RESERVE BANK OF INDIA	
			SHINHAN BANK	
			SOCIETE GENERALE	
			SOUTH INDIAN BANK	
			STANDARD CHARTERED BANK	
			STATE BANK OF BIKANER AND JAIPUR	
			STATE BANK OF HYDERABAD	
			STATE BANK OF INDIA	
			STATE BANK OF INDORE	
			STATE BANK OF MAURITIUS LTD	
			STATE BANK OF MYSORE	
			STATE BANK OF PATIALA	
			STATE BANK OF TRAVANCORE	
			SYNDICATE BANK	
			TAMILNAD MERCANTILE BANK LTD	
			THE AHMEDABAD MERCANTILE CO-OPERATIVE BANK LTD.	
			THE BANK OF NOVA SCOTIA	
			THE BANK OF RAJASTHAN LTD	
			THE BHARAT CO-OPERATIVE BANK (MUMBAI) LTD	
			THE COSMOS CO-OPERATIVE BANK LTD.	
			THE DHANALAKSHMI BANK LTD	
			THE FEDERAL BANK LTD	
			THE GREATER BOMBAY CO-OP.	

141

			BANK LTD THE JAMMU AND KASHMIR BANK LTD THE KALUPUR COMMERCIAL CO. OP. BANK LTD. THE KALYAN JANATA SAHAKARI BANK LTD. THE LAKSHMI VILAS BANK LTD THE RATNAKAR BANK LTD THE SARASWAT CO-OPERATIVE BANK LTD THE SHAMRAO VITHAL CO-OPERATIVE BANK LIMITED THE TAMILNADU STATE APEX COOPERATIVE BANK LIMITED THE THANE JANATA SAHAKARI BANK LTD UCO BANK UNION BANK OF INDIA UNITED BANK OF INDIA VIJAYA BANK YES BANK LTD OTHERS. If OTHERS is selected, the other bank name entered should be captured in this field.	
BANK_BRANCH	CHAR	40		Bank Branch
BANK_CITY	CHAR	35		Bank City
BANK_ACC_NUMBER	CHAR	40		Bank Account Number
ECHO_BACK	CHAR	4	This field is used for NNF users.	Echo Back

142

NEFT_CODE	CHAR	11	Depends on Payout mechanism. If Payout mechanism is 1 then value - Null, if 2 then value - Null, if 3 then value - MICR CODE, if 4 then value - NEFT CODE, If 5 then value - RTGS CODE	NULL/ MICR CODE/ NEFT CODE/ RTGS CODE
BANK_ACC_TYPE	CHAR	10	SB - Savings A/c CB - Current A/c NE – for tax status 'NRE' only NO – for tax status 'NRO'only	SB/ CB/ NE/ NO
STATEMENT_COMMUNICATION_MODE	CHAR	1	Values: 'P' - Physical 'E' - Email	P or E
RESERVED	CHAR	5	Reserved for future use	Null
PAYOUT_MECHANISM	SHORT		1 - cheque 2 - direct credit 3 - ECS 4 - NEFT 5 - RTGS	Payout Mechanism
DATE_OF_BIRTH	CHAR	8	If tax status - 2 this field is mandatory	Date of Birth
GUARDIAN_NAME	CHAR	35	If tax status - 2 this field is mandatory	Guardian Name
GUARDIAN_PAN_NUMBER	CHAR	10	If tax status - 2 this field is mandatory	Guardian PAN Number
NOMINEE_NAME	CHAR	40		Nominee Name if available
NOMINEE_RELATION	CHAR	40		Nominee Relation if available
FILLER3	CHAR	7	It is for future purpose	Null
NNF_USER_INFO	DOUBLE		NNF user info field	nnf user info
BRANCH	SHORT		Mandatory field	Branch
USER	SHORT		Mandatory field	User
BROKER	CHAR	5	Mandatory field	Broker

SUB_BROKER_CODE	CHAR	15	When it is blank, the Primary ARN of the broker will be populated. When the ARN number is sent, it will be validated against the secondary ARN master.	Blank or ARN number can be populated
SIP_Registration_number	Char(15)	15	Should be blank for normal orders. For SIP Orders, the value will be blank during order entry.	
SIP_flag	char(1)	1	To specify the SIP REguistartions	'S'- SIP Order 'N' – Normal order
SIP_tranche_number	bin(31)	4	Should be zero for normal orders. For SIP, the value will be Zero during SIP registration and For modification of SIP registration the 'SIP Tranche Number' received should have value that was present in response packet of sip registration. For same day SIP registration cancellation 'SIP Tranche Number' received should have value that was present in the response packet of registration of sip. For subsequent sip tranche order cancellation the 'SIP Tranche Number' received should have value that was present in order response packet.	

Char_filler		char(24)	24	Should be blank	

2. Additional Purchase - Physical

Field Name	Type	Length / Format	Remarks	Additional Purchase (Sebsequent Investments) - Physical	
SYMBOL	CHAR	10	Mandatory field	Symbol	
SERIES	CHAR	2	Mandatory field	Series	
SUSPENDED	CHAR	1		Should be 'N'	
CATEGORY_CODE	CHAR	5	Mandatory field	Category Code	
AMC_CODE	CHAR	3	Mandatory field	AMC Code	
AMC_SCHEME_CODE	CHAR	10	Mandatory field	AMC Scheme Code	
RT_AGENT_CODE	CHAR	10	Mandatory field	RTA Code	
RT_SCHEME_CODE	CHAR	5	Mandatory field	RTA Scheme Code	
ORDER_NUMBER	DOUBLE			Field should be zero.	
APPL_NUMBER	CHAR	10	Optional	Application No	
BOOK	SHORT		Always 6 for spot market		6
BUY_SELL	SHORT		1-Purchase 2-Redemption		1
PURCHASE_TYPE	SHORT		1-Fresh Purchase 2-Additional Purchase 0-Redemption orders 3- SIP Purchase		2
AMOUNT	DOUBLE		The amount value should not contain any decimal part. The amount value should be less than Rs 1 Crore. For liquid funds the amount can be greater than Rs 1 Crore.	Amount	

145

QUANTITY	DOUBLE		Case1: If the value of qty decimal indicator is 0, then qty for redemption can accept maximum of 99999999999999. Case2: If the value of qty decimal indicator is 1, then qty for redemption can accept maximum of 9999999999999.9. Case3: If the value of qty decimal indicator is 2, then qty for redemption can accept maximum of 999999999999.99. Case4: If the value of qty decimal indicator is 3, then qty for redemption can accept maximum of 99999999999.999. If the value of qty decimal indicator is 4, then qty for redemption can accept maximum of 9999999999.9999.	Field should be zero.
TOTAL_REDEMPTION	CHAR	1	It will always be blank	Null

DIVIDEND_MECHANISM	CHAR	1	Applicable only to dividend scheme. The series of a dividend scheme would be DP - Dividend Payout DR - Dividend Reinvest. For a growth scheme, the series would be GR. The fields should be sent as P - Payout R - Reinvest or Null	For Series:DP, should be sent as P For Series:DR, should be sent as R For Other series, should be sent as null
ENTRY_DATE_TIME	LONG		This field should be set to zero while sending the order entry request.	should be set to 0.
LAST_MODIFIED_DT_TIME	LONG		This field should be set to zero while sending the order entry request. If the order has been modified, this field contains the time when the order was last modified.	should be set to 0.
ATO (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
MKT (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
ON_STOP (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
DAY (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
GTC (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
FOK (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
AON (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
MF (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
MATCHED_INDICATOR (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.

TRADED (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
MODIFIED	BIT	1	It will be '1'b for modified order Otherwise it will be '0'b	1'b - If Modified '0'b - If Not Modified
FROZEN (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
PREOPEN_MATCH (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
ORDER_CTRL_FLAG (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
DEPOSITORY_SETTLEMENT	CHAR	1	It will be 'Y' if settlement is through depository for order otherwise it will be 'N'	N
DEP_ID	CHAR	8	This field should be of 8 digits.	Null
DEP_CLIENT_ID	CHAR	16	This field should be of 8 digits.	Null
DEP_CODE	CHAR	8	It will be 'NSDL/CDSL' if settlement is through depository based upon the SchemeDepCode	Null
FOLIO_NUMBER	CHAR	16	The length of Folio number field should be less than or equal to folio number length applicable for that scheme, specified in scheme master.	Folio No.
MODE_OF_HOLDING	CHAR	2	SI - single JO - Joint AS - Anyone/Survivor	SI, JO or AS
CLIENT_CODE(1)	CHAR	10	Mandatory field	Client Code 1
CLIENT_CODE(2)	CHAR	10	If MODE_OF_HOLDING - JO/AS , Client details 2 is mandatory. Client Details 3 is optional.	Client Code 2
CLIENT_CODE(3)	CHAR	10	If MODE_OF_HOLDING - JO/AS , Client details 2 is mandatory. Client Details 3 is optional.	Client Code 3
CLIENT_NAME1	CHAR	70	Mandatory field	Client Name 1

148

CLIENT_NAME2	CHAR	35	If MODE_OF_HOLDING - JO/AS , Client details 2 is mandatory. Client Details 3 is optional.	Client Name 2
CLIENT_NAME3	CHAR	35	If MODE_OF_HOLDING - JO/AS , Client details 2 is mandatory. Client Details 3 is optional.	Client Name 3
PAN_NUMBER(1)	CHAR	10	Mandatory field	PAN Number 1
PAN_NUMBER(2)	CHAR	10	If MODE_OF_HOLDING - JO/AS , Client details 2 is mandatory. Client Details 3 is optional.	PAN Number 2
PAN_NUMBER(3)	CHAR	10	If MODE_OF_HOLDING - JO/AS , Client details 2 is mandatory. Client Details 3 is optional.	PAN Number 3
KYC_COMPLAINT(1)	CHAR	1	Mandatory Field Y N	KYC Compliant 1
KYC_COMPLIANT(2)	CHAR	1	If MODE_OF_HOLDING - JO/AS , Client details 2 is mandatory. Client Details 3 is optional.	KYC Compliant 2
KYC_COMPLIANT(3)	CHAR	1	If MODE_OF_HOLDING - JO/AS , Client details 2 is mandatory. Client Details 3 is optional.	KYC Compliant 3
OCCUPATION	SHORT		1 - BUSINESS 2 - SERVICE 3 - PROFESSIONAL 4 - AGRICULTURE 5 - RETIRED 6 - HOUSEWIFE 7 - STUDENT 8 - OTHERS	Occupation Code
TAX_STATUS	SHORT		1 - INDIVIDUAL 2 - ON BEHALF OF MINOR 3 – HUF	Tax Status

			4 – Corporate 5 – NRE 6 - NRO	
ADDRESS_LINE(1)	CHAR	40		Null
ADDRESS_LINE(2)	CHAR	40		Null
ADDRESS_LINE(3)	CHAR	40		Null
CITY	CHAR	35		Null
STATE	CHAR	2	UC-Uttranchal MP-Madhya Pradesh GOA-Goa UP-Uttar Pradesh AP-Andhra Pradesh TN-Tamil Nadu SI-Sikkim AS-Assam WB-West Bengal GU-Gujarat MA-Maharashtra HP-Himachal Pradesh MN-Manipur OR-Orissa PO-Pondichery ME-Meghalaya RA-Rajasthan PU-Punjab MI-Mizoram AN-Andaman & Nicobar NA-Nagaland TR-Tripura AR-Arunachal Pradesh BH-Bihar CH-Chandigarh HA-Haryana ND-New Delhi CG-Chattisgarh JK-Jharkhand KA-Karnataka KE-Kerala DL-DELHI JM-JAMMU & KASHMIR	Null
GENDER	CHAR	1	M - MALE F - FEMALE	M/F Should be blank; if the tax status is 4 (Corporate)

150

PINCODE	LONG			Field should be zero.
PHONE_NUMBER_OFF	CHAR	8		Null
PHONE_NUMBER_RES	CHAR	8		Null
MOBILE_NUM	CHAR	10		Null
EMAIL_ID	CHAR	50		Null
BANK_NAME	CHAR	40	ABHYUDAYA CO-OP BANK LTD ABN AMRO BANK ABU DHABI COMMERCIAL BANK ALLAHABAD BANK ANDHRA BANK AXIS BANK BANK OF AMERICA BANK OF BAHRAIN AND KUWAIT BANK OF BARODA BANK OF CEYLON BANK OF INDIA BANK OF MAHARASHTRA BANK OF TOKYO-MITSUBISHI UFJ LTD. BARCLAYS BANK PLC BNP PARIBAS CALYON BANK CANARA BANK CATHOLIC SYRIAN BANK LTD. CENTRAL BANK OF INDIA Citibank Na CITIZENCREDIT CO-OPERATIVE BANK LTD CITY UNION BANK LTD CORPORATION BANK DBS BANK LTD DENA BANK DEUTSCHE BANK DEVELOPMENT CREDIT BANK LIMITED DOMBIVLI NAGARI SAHAKARI BANK LIMITED HDFC BANK LTD. HSBC ICICI BANK LTD	Null

151

			IDBI BANK LTD	
			INDIAN BANK	
			INDIAN OVERSEAS BANK	
			INDUSIND BANK LTD	
			ING VYSYA BANK LTD	
			JANAKALYAN SAHAKARI BANK LTD	
			JPMORGAN CHASE BANK N.A	
			KAPOLE CO OP BANK	
			KARNATAKA BANK LTD	
			KARUR VYSYA BANK	
			KOTAK MAHINDRA BANK	
			KOTAK MAHINDRA BANK	
			MAHANAGAR CO-OP BANK LTD	
			MAHARASHTRA STATE CO OPERATIVE BANK	
			MASHREQBANK PSC	
			NEW INDIA CO-OPERATIVE BANK LTD.	
			NKGSB CO-OP BANK LTD	
			NUTAN NAGARIK SAHAKARI BANK LTD	
			OMAN INTERNATIONAL BANK SAOG	
			ORIENTAL BANK OF COMMERCE	
			PARSIK JANATA SAHAKARI BANK LTD	
			PUNJAB AND MAHARASHTRA CO-OP BANK LTD.	
			PUNJAB AND SIND BANK	
			PUNJAB NATIONAL BANK	
			RESERVE BANK OF INDIA	
			SHINHAN BANK	

				SOCIETE GENERALE
				SOUTH INDIAN BANK
				STANDARD CHARTERED BANK
				STATE BANK OF BIKANER AND JAIPUR
				STATE BANK OF HYDERABAD
				STATE BANK OF INDIA
				STATE BANK OF INDORE
				STATE BANK OF MAURITIUS LTD
				STATE BANK OF MYSORE
				STATE BANK OF PATIALA
				STATE BANK OF TRAVANCORE
				SYNDICATE BANK
				TAMILNAD MERCANTILE BANK LTD
				THE AHMEDABAD MERCANTILE CO-OPERATIVE BANK LTD.
				THE BANK OF NOVA SCOTIA
				THE BANK OF RAJASTHAN LTD
				THE BHARAT CO-OPERATIVE BANK (MUMBAI) LTD
				THE COSMOS CO-OPERATIVE BANK LTD.
				THE DHANALAKSHMI BANK LTD
				THE FEDERAL BANK LTD
				THE GREATER BOMBAY CO-OP. BANK LTD
				THE JAMMU AND KASHMIR BANK LTD
				THE KALUPUR COMMERCIAL CO. OP. BANK LTD.
				THE KALYAN JANATA

153

			SAHAKARI BANK LTD. THE LAKSHMI VILAS BANK LTD THE RATNAKAR BANK LTD THE SARASWAT CO-OPERATIVE BANK LTD THE SHAMRAO VITHAL CO-OPERATIVE BANK LIMITED THE TAMILNADU STATE APEX COOPERATIVE BANK LIMITED THE THANE JANATA SAHAKARI BANK LTD UCO BANK UNION BANK OF INDIA UNITED BANK OF INDIA VIJAYA BANK YES BANK LTD OTHERS. If OTHERS is selected, the other bank name entered should be captured in this field.	
BANK_BRANCH	CHAR	40		Null
BANK_CITY	CHAR	35		Null
BANK_ACC_NUMBER	CHAR	40		Null
ECHO_BACK	CHAR	4	This field is used for NNF users.	Echo Back
NEFT_CODE	CHAR	11	Depends on Payout mechanism. If Payout mechanism is 1 then value - Null, if 2 then value - Null, if 3 then value - MICR CODE, if 4 then value - NEFT CODE, If 5 then value - RTGS CODE	Null

154

BANK_ACC_TYPE	CHAR	10	SB - Savings A/c CB - Current A/c NE – for tax status 'NRE' only NO – for tax status 'NRO' only	Null
STATEMENT_COMMUNICATION_MODE	CHAR	1	Values: 'P' - Physical 'E' - Email	Null
RESERVED	CHAR	5	Reserved for future use	Null
PAYOUT_MECHANISM	SHORT		1 - cheque 2 - direct credit 3 - ECS 4 - NEFT 5 - RTGS	Field should be zero.
DATE_OF_BIRTH	CHAR	8	If tax status - 2 this field is mandatory	Date of Birth
GUARDIAN_NAME	CHAR	35	If tax status - 2 this field is mandatory	Guardian Name
GUARDIAN_PAN_NUMBER	CHAR	10	If tax status - 2 this field is mandatory	Guardian PAN Number
NOMINEE_NAME	CHAR	40		Null
NOMINEE_RELATION	CHAR	40		Null
FILLER3	CHAR	7	It is for future purpose	Null
NNF_USER_INFO	DOUBLE		NNF user info field	nnf user info
BRANCH	SHORT		Mandatory field	Branch
USER	SHORT		Mandatory field	User
BROKER	CHAR	5	Mandatory field	Broker
SUB_BROKER_CODE	CHAR	15	When it is blank, the Primary ARN of the broker will be populated. When the ARN number is sent, it will be validated against the secondary ARN master.	Blank or ARN number can be populated
SIP_Registration_number	Char(15)	15	Should be blank for normal orders. For SIP Orders, the value will be blank during order entry.	
SIP_flag	char(1)	1	To specify the SIP Registrations	'S'- SIP Order 'N' – Normal order

155

SIP_tranche_number	bin(31)	4	Should be zero for normal orders. For SIP Orders, the value will be zero during order entry.	
Char_filler	char(24)	24	Should be blank	

3.   Depository Purchase

Field Name	Type	Length / Format	Remarks	Depository Purchase (Both Fresh and Additional)
SYMBOL	CHAR	10	Mandatory field	Symbol
SERIES	CHAR	2	Mandatory field	Series
SUSPENDED	CHAR	1		Should be 'N'
CATEGORY_CODE	CHAR	5	Mandatory field	Category Code
AMC_CODE	CHAR	3	Mandatory field	AMC Code
AMC_SCHEME_CODE	CHAR	10	Mandatory field	AMC Scheme Code
RT_AGENT_CODE	CHAR	10	Mandatory field	RTA Code
RT_SCHEME_CODE	CHAR	5	Mandatory field	RTA Scheme Code
ORDER_NUMBER	DOUBLE			Field should be zero.
APPL_NUMBER	CHAR	10	Optional	Application No
BOOK	SHORT		Always 6 for spot market	6
BUY_SELL	SHORT		1-Purchase 2-Redemption	1
PURCHASE_TYPE	SHORT		1-Fresh Purchase 2-Additional Purchase 0-Redemption orders 3- SIP Purchase	1 – Fresh Purchase 2 - Additional Purchase
AMOUNT	DOUBLE		The amount value should not contain any decimal part. The amount value should be less than Rs 1 Crore. For liquid funds the amount can be greater than Rs 1 Crore.	Amount

QUANTITY	DOUBLE		Case1: If the value of qty decimal indicator is 0, then qty for redemption can accept maximum of 99999999999999. Case2: If the value of qty decimal indicator is 1, then qty for redemption can accept maximum of 9999999999999.9. Case3: If the value of qty decimal indicator is 2, then qty for redemption can accept maximum of 999999999999.99. Case4: If the value of qty decimal indicator is 3, then qty for redemption can accept maximum of 99999999999.999. If the value of qty decimal indicator is 4, then qty for redemptioncan accept maximum of 9999999999.9999.	Field should be zero.
TOTAL_REDEMPTION	CHAR	1	It will always be blank	Null

DIVIDEND_MECHANISM	CHAR	1	Applicable only to dividend scheme. The series of a dividend scheme would be DP - Dividend Payout DR - Dividend Reinvest. For a growth scheme, the series would be GR. The fields should be sent as P - Payout R - Reinvest or Null	For Series:DP, should be sent as P For Series:DR, should be sent as R For Other series, should be sent as null
ENTRY_DATE_TIME	LONG		This field should be set to zero while sending the order entry request.	should be set to 0.
LAST_MODIFIED_DT_TIME	LONG		This field should be set to zero while sending the order entry request. If the order has been modified, this field contains the time when the order was last modified.	should be set to 0.
ATO (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
MKT (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
ON_STOP (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
DAY (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
GTC (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
FOK (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
AON (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
MF (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
MATCHED_INDICATOR (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.

TRADED (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
MODIFIED	BIT	1	It will be '1'b for modified order Otherwise it will be '0'b	1'b - If Modified '0'b - If Not Modified
FROZEN (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
PREOPEN_MATCH (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
ORDER_CTRL_FLAG (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
DEPOSITORY_SETTLEMENT	CHAR	1	It will be 'Y' if settlement is through depository for order otherwise it will be 'N'	Y
DEP_ID	CHAR	8	This field should be of 8 digits.	DP Id
DEP_CLIENT_ID	CHAR	16	This field should be of 8 digits.	Client Id
DEP_CODE	CHAR	8	It will be 'NSDL/CDSL' if settlement is through depository based upon the SchemeDepCode	Field should be sent as ' NSDL / CDSL based upon the SchemeDepCode.
FOLIO_NUMBER	CHAR	16	The length of Folio number field should be less than or equal to folio number length applicable for that scheme, specified in scheme master.	Null
MODE_OF_HOLDING	CHAR	2	SI - single JO - Joint AS - Anyone/Survivor	SI, JO or AS
CLIENT_CODE(1)	CHAR	10	Mandatory field	The CD code has to be sent
CLIENT_CODE(2)	CHAR	10	If MODE_OF_HOLDING - JO/AS , Client details 2 (Name and PAN number) is mandatory. Client Details 3 is optional.	Should be null

CLIENT_CODE(3)	CHAR	10	If MODE_OF_HOLDING - JO/AS , Client details 2 (Name and PAN number) is mandatory. Client Details 3 is optional.	Should be null
CLIENT_NAME1	CHAR	70	Mandatory field	Client Name 1
CLIENT_NAME2	CHAR	35	If MODE_OF_HOLDING - JO/AS , Client details 2 is mandatory. Client Details 3 is optional.	Client Name 2
CLIENT_NAME3	CHAR	35	If MODE_OF_HOLDING - JO/AS , Client details 2 is mandatory. Client Details 3 is optional.	Client Name 3
PAN_NUMBER(1)	CHAR	10	Mandatory field	PAN Number 1
PAN_NUMBER(2)	CHAR	10	If MODE_OF_HOLDING - JO/AS , Client details 2 is mandatory. Client Details 3 is optional.	PAN Number 2
PAN_NUMBER(3)	CHAR	10	If MODE_OF_HOLDING - JO/AS , Client details 2 is mandatory. Client Details 3 is optional.	PAN Number 3
KYC_COMPLAINT(1)	CHAR	1	Mandatory Field Y	KYC Compliant 1 should be sent as Y.
KYC_COMPLIANT(2)	CHAR	1	If MODE_OF_HOLDING - JO/AS , Client details 2 is mandatory. Client Details 3 is optional.	KYC Compliant 2 should be sent as Y.
KYC_COMPLIANT(3)	CHAR	1	If MODE_OF_HOLDING - JO/AS , Client details 2 is mandatory. Client Details 3 is optional.	KYC Compliant 3 should be sent as Y.

Version 2.24

OCCUPATION	SHORT		1 - BUSINESS 2 - SERVICE 3 - PROFESSIONAL 4 - AGRICULTURE 5 - RETIRED 6 - HOUSEWIFE 7 - STUDENT 8 - OTHERS	Occupation Code
TAX_STATUS	SHORT		1 - INDIVIDUAL 2 - ON BEHALF OF MINOR 3 – HUF 4 – Corporate 5- NRE 6 – NRO	Tax Status
ADDRESS_LINE(1)	CHAR	40		Null
ADDRESS_LINE(2)	CHAR	40		Null
ADDRESS_LINE(3)	CHAR	40		Null
CITY	CHAR	35		Null

STATE	CHAR	2	UC-Uttranchal MP-Madhya Pradesh GOA-Goa UP-Uttar Pradesh AP-Andhra Pradesh TN-Tamil Nadu SI-Sikkim AS-Assam WB-West Bengal GU-Gujarat MA-Maharashtra HP-Himachal Pradesh MN-Manipur OR-Orissa PO-Pondichery ME-Meghalaya RA-Rajasthan PU-Punjab MI-Mizoram AN-Andaman & Nicobar NA-Nagaland TR-Tripura AR-Arunachal Pradesh BH-Bihar CH-Chandigarh HA-Haryana ND-New Delhi CG-Chhattisgarh JK-Jharkhand KA-Karnataka KE-Kerala DL-DELHI JM-JAMMU & KASMIR	Null
GENDER	CHAR	1	M - MALE F - FEMALE	M/F Should be blank; if the tax status is 4 (Corporate)
PINCODE	LONG			Field should be zero.
PHONE_NUMBER_OFF	CHAR	8		Null
PHONE_NUMBER_RES	CHAR	8		Null
MOBILE_NUM	CHAR	10		Null
EMAIL_ID	CHAR	50		Null

Version 2.24

BANK_NAME	CHAR	40	ABHYUDAYA CO-OP BANK LTD ABN AMRO BANK ABU DHABI COMMERCIAL BANK ALLAHABAD BANK ANDHRA BANK AXIS BANK BANK OF AMERICA BANK OF BAHRAIN AND KUWAIT BANK OF BARODA BANK OF CEYLON BANK OF INDIA BANK OF MAHARASHTRA BANK OF TOKYO-MITSUBISHI UFJ LTD. BARCLAYS BANK PLC BNP PARIBAS CALYON BANK CANARA BANK CATHOLIC SYRIAN BANK LTD. CENTRAL BANK OF INDIA Citibank Na CITIZENCREDIT CO-OPERATIVE BANK LTD CITY UNION BANK LTD CORPORATION BANK DBS BANK LTD DENA BANK DEUTSCHE BANK DEVELOPMENT CREDIT BANK LIMITED DOMBIVLI NAGARI SAHAKARI BANK LIMITED HDFC BANK LTD. HSBC ICICI BANK LTD IDBI BANK LTD INDIAN BANK INDIAN OVERSEAS BANK INDUSIND BANK LTD ING VYSYA BANK LTD	Null

163

			JANAKALYAN SAHAKARI BANK LTD	
			JPMORGAN CHASE BANK N.A	
			KAPOLE CO OP BANK	
			KARNATAKA BANK LTD	
			KARUR VYSYA BANK	
			KOTAK MAHINDRA BANK	
			KOTAK MAHINDRA BANK	
			MAHANAGAR CO-OP BANK LTD	
			MAHARASHTRA STATE CO OPERATIVE BANK	
			MASHREQBANK PSC	
			NEW INDIA CO-OPERATIVE BANK LTD.	
			NKGSB CO-OP BANK LTD	
			NUTAN NAGARIK SAHAKARI BANK LTD	
			OMAN INTERNATIONAL BANK SAOG	
			ORIENTAL BANK OF COMMERCE	
			PARSIK JANATA SAHAKARI BANK LTD	
			PUNJAB AND MAHARASHTRA CO-OP BANK LTD.	
			PUNJAB AND SIND BANK	
			PUNJAB NATIONAL BANK	
			RESERVE BANK OF INDIA	
			SHINHAN BANK	
			SOCIETE GENERALE	
			SOUTH INDIAN BANK	
			STANDARD CHARTERED BANK	
			STATE BANK OF BIKANER AND JAIPUR	

164

			STATE BANK OF HYDERABAD	
			STATE BANK OF INDIA	
			STATE BANK OF INDORE	
			STATE BANK OF MAURITIUS LTD	
			STATE BANK OF MYSORE	
			STATE BANK OF PATIALA	
			STATE BANK OF TRAVANCORE	
			SYNDICATE BANK	
			TAMILNAD MERCANTILE BANK LTD	
			THE AHMEDABAD MERCANTILE CO-OPERATIVE BANK LTD.	
			THE BANK OF NOVA SCOTIA	
			THE BANK OF RAJASTHAN LTD	
			THE BHARAT CO-OPERATIVE BANK (MUMBAI) LTD	
			THE COSMOS CO-OPERATIVE BANK LTD.	
			THE DHANALAKSHMI BANK LTD	
			THE FEDERAL BANK LTD	
			THE GREATER BOMBAY CO-OP. BANK LTD	
			THE JAMMU AND KASHMIR BANK LTD	
			THE KALUPUR COMMERCIAL CO. OP. BANK LTD.	
			THE KALYAN JANATA SAHAKARI BANK LTD.	
			THE LAKSHMI VILAS BANK LTD	
			THE RATNAKAR BANK LTD	
			THE SARASWAT CO-	

			OPERATIVE BANK LTD THE SHAMRAO VITHAL CO- OPERATIVE BANK LIMITED THE TAMILNADU STATE APEX COOPERATIVE BANK LIMITED THE THANE JANATA SAHAKARI BANK LTD UCO BANK UNION BANK OF INDIA UNITED BANK OF INDIA VIJAYA BANK YES BANK LTD OTHERS. If OTHERS is selected, the other bank name entered should be captured in this field.	

Field	Type	Size	Description	Value
BANK_BRANCH	CHAR	40		Null
BANK_CITY	CHAR	35		Null
BANK_ACC_NUMBER	CHAR	40		Null
ECHO_BACK	CHAR	4	This field is used for NNF users.	Echo Back
NEFT_CODE	CHAR	11	Depends on Payout mechanism. If Payout mechanism is 1 then value - Null, if 2 then value - Null, if 3 then value - MICR CODE, if 4 then value - NEFT CODE, If 5 then value - RTGS CODE	Null

166

BANK_ACC_TYPE	CHAR	10	SB - Savings A/c CB - Current A/c NE – for tax status 'NRE' only NO – for tax status 'NRO' only	Null
STATEMENT_COMMUNICATION_MODE	CHAR	1	Values: 'P' - Physical 'E' - Email	Null
RESERVED	CHAR	5	Reserved for future use	Null
PAYOUT_MECHANISM	SHORT		1 - cheque 2 - direct credit 3 - ECS 4 - NEFT 5 - RTGS	Field should be zero.
DATE_OF_BIRTH	CHAR	8	If tax status - 2 this field is mandatory	Date of Birth
GUARDIAN_NAME	CHAR	35	If tax status - 2 this field is mandatory	Guardian Name
GUARDIAN_PAN_NUMBER	CHAR	10	If tax status - 2 this field is mandatory	Guardian PAN Number
NOMINEE_NAME	CHAR	40		Null
NOMINEE_RELATION	CHAR	40		Null
FILLER3	CHAR	7	It is for future purpose	Null
NNF_USER_INFO	DOUBLE		NNF user info field	nnf user info
BRANCH	SHORT		Mandatory field	Branch
USER	SHORT		Mandatory field	User
BROKER	CHAR	5	Mandatory field	Broker
SUB_BROKER_CODE	CHAR	15	When it is blank, the Primary ARN of the broker will be populated. When the ARN number is sent, it will be validated against the secondary ARN master.	Blank or ARN number can be populated
SIP_Registration_number	Char(15)	15	Should be blank for normal orders. For SIP Orders, the value will be blank during order entry.	
SIP_flag	char(1)	1	To specify the SIP Registrations	'S'- SIP Order 'N' – Normal order

167

SIP_tranche_number	bin(31)	4	Should be zero for normal orders. For SIP, the value will be zero during SIP registration. For modification of SIP registration the 'SIP Tranche Number' received should have value that was present in response packet of sip registration. For same day SIP registration cancellation 'SIP Tranche Number' received should have value that was present in the response packet of registration of sip. For subsequent sip tranche order cancellation the 'SIP Tranche Number' received should have value that was present in order response packet.
Char_filler	char(24)	24	Should be blank

4.   Redemption - Physical

Field Name	Type	Length / Format	Remarks	Redemption (Physical)
SYMBOL	CHAR	10	Mandatory field	Symbol
SERIES	CHAR	2	Mandatory field	Series
SUSPENDED	CHAR	1		Should be 'N'
CATEGORY_CODE	CHAR	5	Mandatory field	Category Code
AMC_CODE	CHAR	3	Mandatory field	AMC Code

AMC_SCHEME_CODE	CHAR	10	Mandatory field	AMC Scheme Code
RT_AGENT_CODE	CHAR	10	Mandatory field	RTA Code
RT_SCHEME_CODE	CHAR	5	Mandatory field	RTA Scheme Code
ORDER_NUMBER	DOUBLE			Field should be zero.
APPL_NUMBER	CHAR	10	Optional	Application No
BOOK	SHORT		Always 6 for spot market	6
BUY_SELL	SHORT		1-Purchase 2-Redemption	2
PURCHASE_TYPE	SHORT		1-Fresh Purchase 2-Additional Purchase 0-Redemption orders 3- SIP Purchase	0
AMOUNT	DOUBLE		The amount value should not contain any decimal part. The amount value should be less than Rs 1 Crore. The amount should be less than the scheme physical redemption value limit. For liquid funds the amount can be greater than Rs 1 Crore.	For Physical Redemption either quantity or Amount Populated. (If redemption is through amount, then amount will be populated otherwise field should be zero).

169

QUANTITY	DOUBLE		Case1: If the value of qty decimal indicator is 0, then qty for redemption can accept maximum of 99999999999999. Case2: If the value of qty decimal indicator is 1, then qty for redemption can accept maximum of 9999999999999.9. Case3: If the value of qty decimal indicator is 2, then qty for redemption can accept maximum of 999999999999.99. Case4: If the value of qty decimal indicator is 3, then qty for redemption can accept maximum of 99999999999.999. If the value of qty decimal indicator is 4, then qty for redemptioncan accept maximum of 9999999999.9999. The quantity should be less than the scheme physical redemption quantity limit	For Physical Redemption either quantity or Amount Populated (If redemption is through quantity, then quantity will be populated otherwise field should be zero).
TOTAL_REDEMPTION	CHAR	1	It will always be blank	Null

DIVIDEND_MECHANISM	CHAR	1	Applicable only to dividend scheme. The series of a dividend scheme would be DP - Dividend Payout DR - Dividend Reinvest. For a growth scheme, the series would be GR. The fields should be sent as P - Payout R - Reinvest or Null	For Series:DP, should be sent as P For Series:DR, should be sent as R For Other series, should be sent as null
ENTRY_DATE_TIME	LONG		This field should be set to zero while sending the order entry request.	should be set to 0.
LAST_MODIFIED_DT_TIME	LONG		This field should be set to zero while sending the order entry request. If the order has been modified, this field contains the time when the order was last modified.	should be set to 0.
ATO (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
MKT (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
ON_STOP (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
DAY (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
GTC (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
FOK (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
AON (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
MF (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
MATCHED_INDICATOR (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.

TRADED (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
MODIFIED	BIT	1	It will be '1'b for modified order Otherwise it will be '0'b	1'b - If Modified '0'b - If Not Modified
FROZEN (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
PREOPEN_MATCH (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
ORDER_CTRL_FLAG (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
DEPOSITORY_SETTLEMENT	CHAR	1	It will be 'Y' if settlement is through depository for order otherwise it will be 'N'	N
DEP_ID	CHAR	8	This field should be of 8 digits.	Null
DEP_CLIENT_ID	CHAR	16	This field should be of 8 digits.	Null
DEP_CODE	CHAR	8	It will be 'NSDL/CDSL' if settlement is through depository based upon the SchemeDepCode	Null
FOLIO_NUMBER	CHAR	16	The length of Folio number field should be less than or equal to folio number length applicable for that scheme, specified in scheme master.	Folio No.
MODE_OF_HOLDING	CHAR	2	SI - single JO - Joint AS - Anyone/Survivor	SI, JO or AS
CLIENT_CODE(1)	CHAR	10	Mandatory field	Client Code 1
CLIENT_CODE(2)	CHAR	10	If MODE_OF_HOLDING - JO/AS , Client details 2 is mandatory. Client Details 3 is optional.	Client Code 2
CLIENT_CODE(3)	CHAR	10	If MODE_OF_HOLDING - JO/AS , Client details 2 is mandatory. Client Details 3 is optional.	Client Code 3

CLIENT_NAME1	CHAR	70	Mandatory field	Client Name 1
CLIENT_NAME2	CHAR	35	If MODE_OF_HOLDING - JO/AS , Client details 2 is mandatory. Client Details 3 is optional.	Client Name 2
CLIENT_NAME3	CHAR	35	If MODE_OF_HOLDING - JO/AS , Client details 2 is mandatory. Client Details 3 is optional.	Client Name 3
PAN_NUMBER(1)	CHAR	10	Mandatory field	PAN Number 1
PAN_NUMBER(2)	CHAR	10	If MODE_OF_HOLDING - JO/AS , Client details 2 is mandatory. Client Details 3 is optional.	PAN Number 2
PAN_NUMBER(3)	CHAR	10	If MODE_OF_HOLDING - JO/AS , Client details 2 is mandatory. Client Details 3 is optional.	PAN Number 3
KYC_COMPLAINT(1)	CHAR	1	Mandatory Field Y N	KYC Compliant 1
KYC_COMPLIANT(2)	CHAR	1	If MODE_OF_HOLDING - JO/AS , Client details 2 is mandatory. Client Details 3 is optional.	KYC Compliant 2
KYC_COMPLIANT(3)	CHAR	1	If MODE_OF_HOLDING - JO/AS , Client details 2 is mandatory. Client Details 3 is optional.	KYC Compliant 3
OCCUPATION	SHORT		1 - BUSINESS 2 - SERVICE 3 - PROFESSIONAL 4 - AGRICULTURE 5 - RETIRED 6 - HOUSEWIFE 7 - STUDENT 8 - OTHERS	Occupation Code

TAX_STATUS	SHORT		1 - INDIVIDUAL 2 - ON BEHALF OF MINOR 3 – HUF 4 – Corporate 5 – NRE 6 - NRO	Tax Status
ADDRESS_LINE(1)	CHAR	40		Null
ADDRESS_LINE(2)	CHAR	40		Null
ADDRESS_LINE(3)	CHAR	40		Null
CITY	CHAR	35		Null
STATE	CHAR	2	UC-Uttranchal MP-Madhya Pradesh GOA-Goa UP-Uttar Pradesh AP-Andhra Pradesh TN-Tamil Nadu SI-Sikkim AS-Assam WB-West Bengal GU-Gujarat MA-Maharashtra HP-Himachal Pradesh MN-Manipur OR-Orissa PO-Pondichery ME-Meghalaya RA-Rajasthan PU-Punjab MI-Mizoram AN-Andaman & Nicobar NA-Nagaland TR-Tripura AR-Arunachal Pradesh BH-Bihar CH-Chandigarh HA-Haryana ND-New Delhi CG-Chattisgarh JK-Jharkhand KA-Karnataka KE-Kerala DL-DELHI JM-JAMMU & KASMIR	Null
GENDER	CHAR	1	M - MALE F - FEMALE	M/F

174

				Should be blank; if the tax status is 4 (Corporate)
PINCODE	LONG			Field should be zero.
PHONE_NUMBER_OFF	CHAR	8		Null
PHONE_NUMBER_RES	CHAR	8		Null
MOBILE_NUM	CHAR	10		Null
EMAIL_ID	CHAR	50		Null
BANK_NAME	CHAR	40	ABHYUDAYA CO-OP BANK LTD ABN AMRO BANK ABU DHABI COMMERCIAL BANK ALLAHABAD BANK ANDHRA BANK AXIS BANK BANK OF AMERICA BANK OF BAHRAIN AND KUWAIT BANK OF BARODA BANK OF CEYLON BANK OF INDIA BANK OF MAHARASHTRA BANK OF TOKYO-MITSUBISHI UFJ LTD. BARCLAYS BANK PLC BNP PARIBAS CALYON BANK CANARA BANK CATHOLIC SYRIAN BANK LTD. CENTRAL BANK OF INDIA Citibank Na CITIZENCREDIT CO-OPERATIVE BANK LTD CITY UNION BANK LTD CORPORATION BANK DBS BANK LTD DENA BANK DEUTSCHE BANK DEVELOPMENT CREDIT BANK LIMITED	Null

175

			DOMBIVLI NAGARI SAHAKARI BANK LIMITED	
			HDFC BANK LTD.	
			HSBC	
			ICICI BANK LTD	
			IDBI BANK LTD	
			INDIAN BANK	
			INDIAN OVERSEAS BANK	
			INDUSIND BANK LTD	
			ING VYSYA BANK LTD	
			JANAKALYAN SAHAKARI BANK LTD	
			JPMORGAN CHASE BANK N.A	
			KAPOLE CO OP BANK	
			KARNATAKA BANK LTD	
			KARUR VYSYA BANK	
			KOTAK MAHINDRA BANK	
			KOTAK MAHINDRA BANK	
			MAHANAGAR CO-OP BANK LTD	
			MAHARASHTRA STATE CO OPERATIVE BANK	
			MASHREQBANK PSC	
			NEW INDIA CO-OPERATIVE BANK LTD.	
			NKGSB CO-OP BANK LTD	
			NUTAN NAGARIK SAHAKARI BANK LTD	
			OMAN INTERNATIONAL BANK SAOG	
			ORIENTAL BANK OF COMMERCE	
			PARSIK JANATA SAHAKARI BANK LTD	
			PUNJAB AND MAHARASHTRA CO-OP BANK LTD.	
			PUNJAB AND SIND	

176

			BANK
			PUNJAB NATIONAL BANK
			RESERVE BANK OF INDIA
			SHINHAN BANK
			SOCIETE GENERALE
			SOUTH INDIAN BANK
			STANDARD CHARTERED BANK
			STATE BANK OF BIKANER AND JAIPUR
			STATE BANK OF HYDERABAD
			STATE BANK OF INDIA
			STATE BANK OF INDORE
			STATE BANK OF MAURITIUS LTD
			STATE BANK OF MYSORE
			STATE BANK OF PATIALA
			STATE BANK OF TRAVANCORE
			SYNDICATE BANK
			TAMILNAD MERCANTILE BANK LTD
			THE AHMEDABAD MERCANTILE CO-OPERATIVE BANK LTD.
			THE BANK OF NOVA SCOTIA
			THE BANK OF RAJASTHAN LTD
			THE BHARAT CO-OPERATIVE BANK (MUMBAI) LTD
			THE COSMOS CO-OPERATIVE BANK LTD.
			THE DHANALAKSHMI BANK LTD
			THE FEDERAL BANK LTD
			THE GREATER BOMBAY CO-OP. BANK LTD

			THE JAMMU AND KASHMIR BANK LTD THE KALUPUR COMMERCIAL CO. OP. BANK LTD. THE KALYAN JANATA SAHAKARI BANK LTD. THE LAKSHMI VILAS BANK LTD THE RATNAKAR BANK LTD THE SARASWAT CO-OPERATIVE BANK LTD THE SHAMRAO VITHAL CO-OPERATIVE BANK LIMITED THE TAMILNADU STATE APEX COOPERATIVE BANK LIMITED THE THANE JANATA SAHAKARI BANK LTD UCO BANK UNION BANK OF INDIA UNITED BANK OF INDIA VIJAYA BANK YES BANK LTD OTHERS. If OTHERS is selected, the other bank name entered should be captured in this field.	
BANK_BRANCH	CHAR	40		Null
BANK_CITY	CHAR	35		Null
BANK_ACC_NUMBER	CHAR	40		Null
ECHO_BACK	CHAR	4	This field is used for NNF users.	Echo Back

NEFT_CODE	CHAR	11	Depends on Payout mechanism. If Payout mechanism is 1 then value - Null, if 2 then value - Null, if 3 then value - MICR CODE, if 4 then value - NEFT CODE, If 5 then value - RTGS CODE	Null
BANK_ACC_TYPE	CHAR	10	SB - Savings A/c CB - Current A/c NE – for tax status 'NRE' only NO – for tax status 'NRO'only	Null
STATEMENT_COMMUNICATION_MODE	CHAR	1	Values: 'P' - Physical 'E' - Email	Null
RESERVED	CHAR	5	Reserved for future use	Null
PAYOUT_MECHANISM	SHORT		1 - cheque 2 - direct credit 3 - ECS 4 - NEFT 5 - RTGS	Field should be zero.
DATE_OF_BIRTH	CHAR	8	If tax status - 2 this field is mandatory	Date of Birth
GUARDIAN_NAME	CHAR	35	If tax status - 2 this field is mandatory	Guardian Name
GUARDIAN_PAN_NUMBER	CHAR	10	If tax status - 2 this field is mandatory	Guardian PAN Number
NOMINEE_NAME	CHAR	40		Null
NOMINEE_RELATION	CHAR	40		Null
FILLER3	CHAR	7	It is for future purpose	Null
NNF_USER_INFO	DOUBLE		NNF user info field	nnf user info
BRANCH	SHORT		Mandatory field	Branch
USER	SHORT		Mandatory field	User
BROKER	CHAR	5	Mandatory field	Broker
SUB_BROKER_CODE	CHAR	15	When it is blank, the Primary ARN of the broker will be populated. When the ARN number is sent, it	Blank or ARN number can be populated

179

SIP_Registration_number	Char(15)	15	will be validated against the secondary ARN master. Should be blank for normal orders. For SIP Orders, the value will be blank during order entry.	
SIP_flag	char(1)	1	To specify the SIP Registrations	'S'- SIP Order 'N' – Normal order
SIP_tranche_number	bin(31)	4	Should be zero for normal orders. For SIP Orders, the value will be zero during order entry.	
Char_filler	char(24)	24	Should be blank	

5. Redemption - Depository

Field Name	Type	Length / Format	Remarks	Redemption (Depository)
SYMBOL	CHAR	10	Mandatory field	Symbol
SERIES	CHAR	2	Mandatory field	Series
SUSPENDED	CHAR	1		Should be 'N'
CATEGORY_CODE	CHAR	5	Mandatory field	Category Code
AMC_CODE	CHAR	3	Mandatory field	AMC Code
AMC_SCHEME_CODE	CHAR	10	Mandatory field	AMC Scheme Code
RT_AGENT_CODE	CHAR	10	Mandatory field	RTA Code
RT_SCHEME_CODE	CHAR	5	Mandatory field	RTA Scheme Code
ORDER_NUMBER	DOUBLE			Field should be zero.
APPL_NUMBER	CHAR	10	Optional	Application No
BOOK	SHORT		Always 6 for spot market	6
BUY_SELL	SHORT		1-Purchase 2-Redemption	2
PURCHASE_TYPE	SHORT		1-Fresh Purchase 2-Additional Purchase 0-Redemption orders 3- SIP Purchase	0

AMOUNT	DOUBLE		The amount value should not contain any decimal part. The amount value should be less than Rs 1 Crore. For liquid funds the amount can be greater than Rs 1 Crore.	Field should be zero.
QUANTITY	DOUBLE		Case1: If the value of qty decimal indicator is 0, then qty for redemption can accept maximum of 99999999999999. Case2: If the value of qty decimal indicator is 1, then qty for redemption can accept maximum of 9999999999999.9. Case3: If the value of qty decimal indicator is 2, then qty for redemption can accept maximum of 999999999999.99. Case4: If the value of qty decimal indicator is 3, then qty for redemption can accept maximum of 99999999999.999. If the value of qty decimal indicator is 4, then qty for redemptioncan accept maximum of 9999999999.9999.	Quantity
TOTAL_REDEMPTION	CHAR	1	It will always be blank	Null

DIVIDEND_MECHANISM	CHAR	1	Applicable only to dividend scheme. The series of a dividend scheme would be DP - Dividend Payout DR - Dividend Reinvest. For a growth scheme, the series would be GR. The fields should be sent as P - Payout R - Reinvest or Null	For Series:DP, should be sent as P For Series:DR, should be sent as R For Other series, should be sent as null
ENTRY_DATE_TIME	LONG		This field should be set to zero while sending the order entry request.	should be set to 0.
LAST_MODIFIED_DT_TIME	LONG		This field should be set to zero while sending the order entry request. If the order has been modified, this field contains the time when the order was last modified.	should be set to 0.
ATO (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
MKT (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
ON_STOP (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
DAY (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
GTC (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
FOK (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
AON (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
MF (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
MATCHED_INDICATOR (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.

TRADED (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
MODIFIED	BIT	1	It will be '1'b for modified order Otherwise it will be '0'b	1'b - If Modified '0'b - If Not Modified
FROZEN (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
PREOPEN_MATCH (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
ORDER_CTRL_FLAG (Reserved)	BIT	1	It will always be '0'b	should be set to '0'b.
DEPOSITORY_SETTLEMENT	CHAR	1	It will be 'Y' if settlement is through depository for order otherwise it will be 'N'	Y
DEP_ID	CHAR	8	This field should be of 8 digits.	DP Id
DEP_CLIENT_ID	CHAR	16	This field should be of 8 digits.	Client Id
DEP_CODE	CHAR	8	It will be 'NSDL/CDSL' if settlement is through depository based upon the SchemeDepCode	Field should be sent as ' NSDL / CDSL based upon the SchemeDepCode.
FOLIO_NUMBER	CHAR	16	The length of Folio number field should be less than or equal to folio number length applicable for that scheme, specified in scheme master.	Null
MODE_OF_HOLDING	CHAR	2	SI - single JO - Joint AS - Anyone/Survivor	SI, JO or AS
CLIENT_CODE(1)	CHAR	10	Mandatory field	The CD code has to be sent
CLIENT_CODE(2)	CHAR	10	If MODE_OF_HOLDING - JO/AS , Client details 2 (Name and PAN number)is mandatory. Client Details 3 is optional.	Should be null

183

CLIENT_CODE(3)	CHAR	10	If MODE_OF_HOLDING - JO/AS , Client details 2(Name and PAN number) is mandatory. Client Details 3 is optional.	Should be null
CLIENT_NAME1	CHAR	70	Mandatory field	Client Name 1
CLIENT_NAME2	CHAR	35	If MODE_OF_HOLDING - JO/AS , Client details 2 is mandatory. Client Details 3 is optional.	Client Name 2
CLIENT_NAME3	CHAR	35	If MODE_OF_HOLDING - JO/AS , Client details 2 is mandatory. Client Details 3 is optional.	Client Name 3
PAN_NUMBER(1)	CHAR	10	Mandatory field	PAN Number 1
PAN_NUMBER(2)	CHAR	10	If MODE_OF_HOLDING - JO/AS , Client details 2 is mandatory. Client Details 3 is optional.	PAN Number 2
PAN_NUMBER(3)	CHAR	10	If MODE_OF_HOLDING - JO/AS , Client details 2 is mandatory. Client Details 3 is optional.	PAN Number 3
KYC_COMPLAINT(1)	CHAR	1	Mandatory Field Y	KYC Compliant 1 should be sent as Y.
KYC_COMPLIANT(2)	CHAR	1	If MODE_OF_HOLDING - JO/AS , Client details 2 is mandatory. Client Details 3 is optional.	KYC Compliant 2 should be sent as Y.
KYC_COMPLIANT(3)	CHAR	1	If MODE_OF_HOLDING - JO/AS , Client details 2 is mandatory. Client Details 3 is optional.	KYC Compliant 3 should be sent as Y.

Version 2.24

OCCUPATION	SHORT		1 - BUSINESS 2 - SERVICE 3 - PROFESSIONAL 4 - AGRICULTURE 5 - RETIRED 6 - HOUSEWIFE 7 - STUDENT 8 - OTHERS	Occupation Code
TAX_STATUS	SHORT		1 - INDIVIDUAL 2 - ON BEHALF OF MINOR 3 – HUF 4 – Corporate 5- NRE 6 - NRO	Tax Status
ADDRESS_LINE(1)	CHAR	40		Null
ADDRESS_LINE(2)	CHAR	40		Null
ADDRESS_LINE(3)	CHAR	40		Null
CITY	CHAR	35		Null

STATE	CHAR	2	UC-Uttaranchal MP-Madhya Pradesh GOA-Goa UP-Uttar Pradesh AP-Andhra Pradesh TN-Tamil Nadu SI-Sikkim AS-Assam WB-West Bengal GU-Gujarat MA-Maharashtra HP-Himachal Pradesh MN-Manipur OR-Orissa PO-Pondicherry ME-Meghalaya RA-Rajasthan PU-Punjab MI-Mizoram AN-Andaman & Nicobar NA-Nagaland TR-Tripura AR-Arunachal Pradesh BH-Bihar CH-Chandigarh HA-Haryana ND-New Delhi CG-Chhattisgarh JK-Jharkhand KA-Karnataka KE-Kerala DL-DELHI JM-JAMMU & KASMIR	Null
GENDER	CHAR	1	M - MALE F - FEMALE	M/F Should be blank; if the tax status is 4 (Corporate)
PINCODE	LONG			Field should be zero.
PHONE_NUMBER_OFF	CHAR	8		Null
PHONE_NUMBER_RES	CHAR	8		Null
MOBILE_NUM	CHAR	10		Null
EMAIL_ID	CHAR	50		Null

BANK_NAME	CHAR	40	ABHYUDAYA CO-OP BANK LTD ABN AMRO BANK ABU DHABI COMMERCIAL BANK ALLAHABAD BANK ANDHRA BANK AXIS BANK BANK OF AMERICA BANK OF BAHRAIN AND KUWAIT BANK OF BARODA BANK OF CEYLON BANK OF INDIA BANK OF MAHARASHTRA BANK OF TOKYO-MITSUBISHI UFJ LTD. BARCLAYS BANK PLC BNP PARIBAS CALYON BANK CANARA BANK CATHOLIC SYRIAN BANK LTD. CENTRAL BANK OF INDIA Citibank Na CITIZENCREDIT CO-OPERATIVE BANK LTD CITY UNION BANK LTD CORPORATION BANK DBS BANK LTD DENA BANK DEUTSCHE BANK DEVELOPMENT CREDIT BANK LIMITED DOMBIVLI NAGARI SAHAKARI BANK LIMITED HDFC BANK LTD. HSBC ICICI BANK LTD IDBI BANK LTD INDIAN BANK INDIAN OVERSEAS BANK INDUSIND BANK LTD ING VYSYA BANK LTD	Null

187

			JANAKALYAN SAHAKARI BANK LTD	
			JPMORGAN CHASE BANK N.A	
			KAPOLE CO OP BANK	
			KARNATAKA BANK LTD	
			KARUR VYSYA BANK	
			KOTAK MAHINDRA BANK	
			KOTAK MAHINDRA BANK	
			MAHANAGAR CO-OP BANK LTD	
			MAHARASHTRA STATE CO OPERATIVE BANK	
			MASHREQBANK PSC	
			NEW INDIA CO-OPERATIVE BANK LTD.	
			NKGSB CO-OP BANK LTD	
			NUTAN NAGARIK SAHAKARI BANK LTD	
			OMAN INTERNATIONAL BANK SAOG	
			ORIENTAL BANK OF COMMERCE	
			PARSIK JANATA SAHAKARI BANK LTD	
			PUNJAB AND MAHARASHTRA CO-OP BANK LTD.	
			PUNJAB AND SIND BANK	
			PUNJAB NATIONAL BANK	
			RESERVE BANK OF INDIA	
			SHINHAN BANK	
			SOCIETE GENERALE	
			SOUTH INDIAN BANK	
			STANDARD CHARTERED BANK	
			STATE BANK OF BIKANER AND JAIPUR	

188

			STATE BANK OF HYDERABAD
			STATE BANK OF INDIA
			STATE BANK OF INDORE
			STATE BANK OF MAURITIUS LTD
			STATE BANK OF MYSORE
			STATE BANK OF PATIALA
			STATE BANK OF TRAVANCORE
			SYNDICATE BANK
			TAMILNAD MERCANTILE BANK LTD
			THE AHMEDABAD MERCANTILE CO-OPERATIVE BANK LTD.
			THE BANK OF NOVA SCOTIA
			THE BANK OF RAJASTHAN LTD
			THE BHARAT CO-OPERATIVE BANK (MUMBAI) LTD
			THE COSMOS CO-OPERATIVE BANK LTD.
			THE DHANALAKSHMI BANK LTD
			THE FEDERAL BANK LTD
			THE GREATER BOMBAY CO-OP. BANK LTD
			THE JAMMU AND KASHMIR BANK LTD
			THE KALUPUR COMMERCIAL CO. OP. BANK LTD.
			THE KALYAN JANATA SAHAKARI BANK LTD.
			THE LAKSHMI VILAS BANK LTD
			THE RATNAKAR BANK LTD
			THE SARASWAT CO-

189

				OPERATIVE BANK LTD THE SHAMRAO VITHAL CO- OPERATIVE BANK LIMITED THE TAMILNADU STATE APEX COOPERATIVE BANK LIMITED THE THANE JANATA SAHAKARI BANK LTD UCO BANK UNION BANK OF INDIA UNITED BANK OF INDIA VIJAYA BANK YES BANK LTD OTHERS. If OTHERS is selected, the other bank name entered should be captured in this field.	
BANK_BRANCH	CHAR	40			Null
BANK_CITY	CHAR	35			Null
BANK_ACC_NUMBER	CHAR	40			Null
ECHO_BACK	CHAR	4		This field is used for NNF users.	Echo Back
NEFT_CODE	CHAR	11		Depends on Payout mechanism. If Payout mechanism is 1 then value - Null, if 2 then value - Null, if 3 then value - MICR CODE, if 4 then value - NEFT CODE, If 5 then value - RTGS CODE	Null

190

BANK_ACC_TYPE	CHAR	10	SB - Savings A/c CB - Current A/c NE – for tax status 'NRE' only NO – for tax status 'NRO' only	Null
STATEMENT_COMMUNICATION_MODE	CHAR	1	Values: 'P' - Physical 'E' - Email	Null
RESERVED	CHAR	5	Reserved for future use	Null
PAYOUT_MECHANISM	SHORT		1 - cheque 2 - direct credit 3 - ECS 4 - NEFT 5 - RTGS	Field should be zero.
DATE_OF_BIRTH	CHAR	8	If tax status - 2 this field is mandatory	Date of Birth
GUARDIAN_NAME	CHAR	35	If tax status - 2 this field is mandatory	Guardian Name
GUARDIAN_PAN_NUMBER	CHAR	10	If tax status - 2 this field is mandatory	Guardian PAN Number
NOMINEE_NAME	CHAR	40		Null
NOMINEE_RELATION	CHAR	40		Null
FILLER3	CHAR	7	It is for future purpose	Null
NNF_USER_INFO	DOUBLE		NNF user info field	nnf user info
BRANCH	SHORT		Mandatory field	Branch
USER	SHORT		Mandatory field	User
BROKER	CHAR	5	Mandatory field	Broker
SUB_BROKER_CODE	CHAR	15	When it is blank, the Primary ARN of the broker will be populated. When the ARN number is sent, it will be validated against the secondary ARN master.	Blank or ARN number can be populated
SIP_Registration_number	Char(15)	15	Should be blank for normal orders. For SIP Orders, the value will be blank during order entry.	
SIP_flag	char(1)	1	To specify the SIP Registrations	'S'- SIP Order 'N' – Normal order

SIP_tranche_number	bin(31)	4	Should be zero for normal orders. For SIP Orders, the value will be Zero during order entry.
Char_filler	char(24)	24	Should be blank