



BSE iBBS TCP/IP & HTTP COMMUNICATION STRUCTURE

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NOTE: THE STRUCTURE PROVIDED IN THE DOCUMENT SHOULD BE SENT IN FIXED WIDTH ASCII FORMAT



TCP/IP BASED COMMUNICATION API

1. LOGIN, LOGOFF REQUEST& RESPONSE

1.1 LOGIN REQUEST:

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF MESSAGE	6000 – LOGON REQUEST
LOGINID	CHAR(15)	THIS FIELD SHOULD CONTAIN LOGIN ID	
MEMBERCODE	CHAR(10)	THIS FIELD SHOULD CONTAIN THE MEMBER CODE.	
PASSWORD	CHAR(8)	THIS FIELD SHOULD CONTAIN THE PASSWORD ENTERED BY THE USER. COMBINATION OF ALPHABET, NUMBERS AND ONE SPECIAL CHARACTER.	
NEW PASSWORD	CHAR(8)	THIS FIELD SHOULD CONTAIN THE PASSWORD ENTERED BY THE USER. COMBINATION OF ALPHABET, NUMBERS AND ONE SPECIAL CHARACTER.	SHOULD NOT BE SAME AS PREV PASSWORD
iBBSID	CHAR(10)	UNIQUE ID PROVIDED BY THE EXCHANGE FOR ACCESSING THE SYSTEM	

1.2 LOGIN RESPONSE:

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF MESSAGE	7000 – LOGON RESPONSE
LOGINID	CHAR(15)	THIS FIELD WOULD CONTAIN LOGIN ID	
MEMBERCODE	CHAR(10)	THIS FIELD WOULD CONTAIN MEMBER CODE	
ERRORCODE	CHAR(3)	ERROR CODE INDICATING SUCCESS / FAILURE 0 – SUCCESSFUL OTHERS – FAILURE	
BRANCHCODE	CHAR(10)	THIS FIELD WOULD CONTAIN BRANCH CODE	
CURRENTDATE	CHAR(11)	CURRENT DATE	DD MMM YYYY FORMAT
CURRENTTIME	CHAR(8)	CURRENT TIME	HH24:MI:SS FORMAT
SESSIONID	CHAR(50)	LOGIN SESSION	
MESSAGE	CHAR(250)	IF ERROR CODE IS ZERO THEN MESSAGE WOULD BE BLANK OTHERWISE IT CONTAIN ERROR MESSAGE	

1.3 LOGOFF REQUEST:

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF MESSAGE	6001– LOGOFF REQUEST
LOGINID	CHAR(15)	THIS FIELD SHOULD CONTAIN LOGIN ID	
MEMBERCODE	CHAR(10)	THIS FIELD SHOULD CONTAIN MEMBER CODE	
SESSIONID	CHAR(50)	LOGIN SESSION	

1.4 LOG OFF RESPONSE:

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF MESSAGE	7001 – LOGOFF RESPONSE
ERRORCODE	CHAR(3)	ERROR CODE INDICATING SUCCESS / FAILURE 0 – SUCCESSFUL OTHERS – FAILURE	
CURRENTDATE	CHAR(11)	CURRENT DATE	DD MMM YYYY FORMAT
CURRENTTIME	CHAR(8)	CURRENT TIME	HH24:MI:SS FORMAT
MESSAGE	CHAR(250)	IF ERROR CODE IS ZERO THEN MESSAGE WOULD BE BLANK OTHERWISE IT CONTAIN ERROR MESSAGE	

2. EXCHANGE, MARKET & ISUSE OPEN /CLOSE MESSAGES

2.1 EXCHANGE MESSAGES:

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
MESSAGE CODE	CHAR(4)	TYPE OF MESSAGE	9000- MARKET NEWS
MESSAGE	CHAR(1000)	MESSAGES FROM EXCHANGE	

2.2 EXCHANGE MARKET OPEN/CLOSE MESSAGE:

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF MESSAGE	7710 – EXCHANGE OPEN 7711 – EXCHANGE CLOSE
OPENDATE	CHAR(11)	OPEN DATE	DD MMM YYYY FORMAT
OPENTIME	CHAR(8)	OPEN TIME	HH24:MI:SS FORMAT
CLOSEDATE	CHAR(11)	CLOSE DATE	DD MMM YYYY FORMAT
CLOSETIME	CHAR(8)	CLOSE TIME	HH24:MI:SS FORMAT
MESSAGE	CHAR(250)	EXCHANGE MARKET OPEN AND CLOSE MESSAGE	

2.3 IPO CATEGORY WISE MARKET OPEN/CLOSE MESSAGE:

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS /
TRANSACTION CODE	CHAR(4)	TYPE OF MESSAGE	7712-IPO CATEGORY MARKET OPEN 7713-IPO CATEGORY MARKET CLOSE
SCRIPID	CHAR(10)	THIS FIELD SHOULD CONTAIN SYMBOL OF COMPANY/IPO	
CATEGORY	CHAR(5)	CONTAINS THE CATEGORY AS MENTIONED IN THE IPO FORM	
SERIES	CHAR(1)	SERIES ASSOCIATED WITH EACH CATEGORY OF DEBT IPO, FOR NORMAL EQUITY IPO SAME WILL BE BLANK.	
ASBA/NON ASBA	CHAR(1)	1:-NON ASBA, 2:-ASBA	
OPENDATE	CHAR(11)	IPO OPEN DATE	DD MMM YYYY
OPENTIME	CHAR(8)	OPEN TIME FOR CURRENT DAY	HH24:MI:SS FORMAT
CLOSEDATE	CHAR(11)	IPO CLOSE DATE	DD MMM YYYY
CLOSETIME	CHAR(8)	CLOSE TIME FOR CURRENT DAY	HH24:MI:SS FORMAT
MESSAGE	CHAR(250)	IPO CATEGORY WISE EXCHANGE MARKET OPEN AND CLOSE MESSAGE	

3. IPO MAPPING & HEART BEAT REQUEST / RESPONSE

3.1 IPO MAPPING REQUEST MESSAGE:

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF MESSAGE	6008
SCRIPID	CHAR(10)	THIS FIELD SHOULD CONTAIN SYMBOL OF COMPANY/IPO	
MEMBER CODE	CHAR((10))	THIS FIELD SHOULD CONTAIN THE MEMBER CODE	
LOGINID	CHAR(15)	THIS FIELD SHOULD CONTAIN LOGIN ID	
BRANCHCODE	CHAR(10)	THIS FIELD SHOULD CONTAIN BRANCH CODE.	
SESSION	CHAR(50)	LOGIN SESSION	

3.2 IPO MAPPING RESPONSE MESSAGE:

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF MESSAGE	7008
SCRIPID	CHAR(10)	THIS FIELD SHOULD CONTAIN SYMBOL OF COMPANY/IPO	
MEMBER CODE	CHAR((10))	THIS FIELD SHOULD CONTAIN THE MEMBER CODE	
LOGINID	CHAR(15)	THIS FIELD SHOULD CONTAIN LOGIN ID	
BRANCHCODE	CHAR(10)	THIS FIELD SHOULD CONTAIN BRANCH CODE.	
SESSION	CHAR(50)	LOGIN SESSION	
ERRORCODE	CHAR(3)	CODE INDICATING SUCCESS / FAILURE 0 – SUCCESSFUL OTHERS – FAILURE	
MESSAGE	CHAR(250)	IN CASE OF ERROR, THE SYSTEM WOULD RETURN THE ERROR MESSAGE	

3.3 HEARTBEAT REQUEST

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF OFS MESSAGE	1905
TAG	CHAR(4)	DEFAULT VALUE WILL BE HBRQ	

3.4 HEARTBEAT RESPONSE

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF OFS MESSAGE	1906
TAG	CHAR(4)	VALUE WILL BE HBRP	



EQUITY IPO, FPO, RIGHT ISSUE, IPP

4. ORDER ENTRY, MODIFICATION & CANCELLATION REQUEST / RESPONSE

4.1 ADD/MODIFY ORDERS REQUEST:

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF MESSAGE	6002 – NEW BID 6003 – MODIFY BID
SCRIPTID	CHAR(10)	THIS FIELD SHOULD CONTAIN SYMBOL OF COMPANY/IPO	
APPLICATIONNO	CHAR(16)	THIS FIELD SHOULD CONTAIN APPLICATION NO OF THE IPO FORM.	
CATEGORY	CHAR(5)	CONTAINS THE CATEGORY AS MENTIONED IN THE IPO FORM. 'RIC' FOR RIGHT ISSUES	
APPLICANT NAME	CHAR(50)	CLIENT OR APPLICANT NAME AS ON THE APPLICATION FORM	
DEPOSITORY	CHAR(4)	THIS FIELD SHOULD CONTAIN ONLY CDSL OR NSDL	
DPID	CHAR(8)	IF CDSL THEN VALUE WILL BE 0 ELSE FOR NSDL 8 CHARACTER VALUE SHOULD BE PROVIDED	
CLIENT/BENF. ID	CHAR(16)	IF CDSL THEN VALUE SHOULD BE 16 ELSE FOR NSDL 8 CHARACTER VALUE SHOULD BE PROVIDED	
QUANTITY	CHAR(11)	THIS FIELD SHOULD CONTAIN BID QUANTITY	
RATE	CHAR(7)	THIS FIELD SHOULD CONTAIN BID PRICE	
CHEQUE RECEIVED FLAG	CHAR(1)	CONTAINS Y OR N	
CUTOFFFLAG	CHAR(1)	CONTAINS 0 OR 1, "1" FOR CUT OFF ELSE MENTION 0 FOR PRICE BID FOR RIGHT ISSUE THE VALUE SHOULD BE 0	
CHEQUE AMOUNT	CHAR(12)	CHEQUE AMOUNT RECEIVED FROM APPLICANT	
PAN NO	CHAR(10)	THIS FIELD SHOULD CONTAIN PAN NO OF APPLICANT	
BANK NAME	CHAR(6)	FOR BANKS THE VALUE WILL BE 0 FOR MEMBER-ASBA VALUE WILL BE RBI CODE FOR MEMBER-NON ASBA VALUE WILL BE 9999	
LOCATION	CHAR(6)	FOR BANKS THE VALUE WILL BE 0 FOR MEMBER-ASBA VALUE WILL BE LOCATION CODE FOR MEMBER-NON ASBA VALUE WILL BE NASBAL. FOR RIGHTS ISSUE THE VALUE WILL BE 0.	

ACCOUNT NUMBER	CHAR(16)	THIS FIELD SHOULD CONTAIN ACCOUNT NO OF THE APPLICANT	
IFSC CODE	CHAR(11)	FOR MEMBERS: NON MANDATORY FOR BANKS: CONTAINS IFSC CODE	
BANK REFERENCE NO/CHEQUE NO	CHAR(16)	OPTIONAL FOR BANK OPTIONAL FOR MEMBER ASBA MANDATORY FOR MEMBER NON-ASBA OPTIONAL FOR RIGHTS ISSUE	
ORDERNO	CHAR(16)	VENDOR 'S UNIQUE ID	
MEMBER CODE	CHAR((10))	THIS FIELD SHOULD CONTAIN THE MEMBER CODE	
LOGINID	CHAR(15)	THIS FIELD SHOULD CONTAIN LOGIN ID	
BRANCHCODE	CHAR(10)	THIS FIELD SHOULD CONTAIN BRANCH CODE.	
SESSION	CHAR(50)	LOGIN SESSION	
BID ID	CHAR(16)	IN CASE OF NEW BID SHOULD BE BLANK. INCASE OF MODIFICATION/CANCELLATION NEED TO PROVIDE BID ID	
ACTION CODE	CHAR(1)	N:- NEW,M:- MODIFY	
ASBA/NON ASBA	CHAR(1)	0:- ASBA,1:-NON-ASBA,2:OTHERS(BANK USERS)	

4.2 ADD/MODIFY ORDER RESPONSE:

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF MESSAGE	7002 – NEW BID 7003 – MODIFY BID
SCRIPID	CHAR(10)	THIS FIELD WOULD CONTAIN SYMBOL OF COMPANY/IPO	
APPLICATIONNO	CHAR(16)	THIS FIELD WOULD CONTAIN APPLICATION NO OF THE IPO FORM SENT IN USER REQUEST	
CATEGORY	CHAR(5)	CONTAINS THE CATEGORY AS MENTIONED IN THE IPO FORM 'RIC' FOR RIGHT ISSUES	
APPLICANT NAME	CHAR(50)	CLIENT OR APPLICANT NAME AS MENTIONED IN USER REQUEST	
DEPOSITORY	CHAR(4)	THIS FIELD WOULD CONTAIN ONLY CDSL OR NSDL MENTIONED IN USER REQUEST	
DPID	CHAR(8)	IF CDSL THEN VALUE WILL BE 0 ELSE 8 CHARACTER VALUE SHOULD BE INSERTED	
CLIENT/BENF. ID	CHAR(16)	IF CDSL THEN VALUE SHOULD BE 16 ELSE 8 CHARACTER VALUE SHOULD BE INSERTED	
QUANTITY	CHAR(11)	THIS FIELD WOULD CONTAIN BID QUANTITY	
RATE	CHAR(7)	THIS FIELD WOULD CONTAIN BID PRICE	
CHEQUE RECEIVED FLAG	CHAR(1)	CONTAINS Y OR N	
CUTTOFFFLAG	CHAR(1)	CONTAINS 0 OR 1, "1" FOR CUT OFF ELSE MENTION 0 FOR PRICE BID FOR RIGHT ISSUE THE VALUE SHOULD BE 0	
CHEQUE AMOUNT	CHAR(12)	CHEQUE AMOUNT RECEIVED FROM APPLICANT	
PAN NO	CHAR(10)	THIS FIELD WOULD CONTAIN PAN NO OF APPLICANT	
BANK NAME	CHAR(6)	FOR BANKS THE VALUE WILL BE 0 FOR MEMBER-ASBA VALUE WILL BE RBI CODE FOR MEMBER-NON ASBA VALUE WILL BE 9999 FOR RIGHTS ISSUE THE VALUE WILL BE 0	
LOCATION	CHAR(6)	FOR BANKS THE VALUE WILL BE 0. FOR MEMBER-ASBA VALUE WILL BE	

		LOCATION CODE. FOR MEMBER-NON ASBA VALUE WILL BE NASBAL. FOR RIGHTS ISSUE THE VALUE WILL BE 0.	
ACCOUNT NUMBER	CHAR(16)	THIS FIELD WOULD CONTAIN ACCOUNT NO OF THE APPLICANT	
IFSC CODE	CHAR(11)	FOR MEMBERS: NON MANDATORY FOR BANKS: CONTAINS IFSC CODE	
BANK REFERENCE NO/CHEQUE NO	CHAR(16)	OPTIONAL FOR BANK OPTIONAL FOR MEMBER ASBA MANDATORY FOR MEMBER NON-ASBA OPTIONAL FOR RIGHTS ISSUE	
ORDERNO	CHAR(16)	VENDOR'S UNIQUE ID	
MEMBERCODE	CHAR(10)	THIS FIELD WOULD CONTAIN THE MEMBER CODE	
LOGINID	CHAR(15)	THIS FIELD WOULD CONTAIN LOGIN ID	
BRANCHCODE	CHAR(10)	THIS FIELD WOULD CONTAIN BRANCH CODE	
SESSION	CHAR(50)	LOGIN SESSION	
BID ID	CHAR(16)	NEW GENERATED OR MODIFIED BID ID	
ACTION TIME	CHAR(19)	DD-MM-YYYY HH24:MM:SS	
ACTION CODE	CHAR(1)	N:- NEW,M:- MODIFY	
ASBA/NON ASBA	CHAR(1)	0:- ASBA,1:-NON-ASBA,2:OTHERS(BANK USERS)	
ERRORCODE	CHAR(3)	ERROR CODE INDICATING SUCCESS / FAILURE 0 – SUCCESSFUL OTHERS – FAILURE	
MESSAGE	CHAR(250)	SYSTEM WOULD RETURN 'SUCCESS' IN CASE OF THE REQUEST GETTING COMPLETED SUCCESSFULLY IN CASE OF ERROR, THE SYSTEM WOULD RETURN THE ERROR MESSAGE	

4.3 ORDER CANCEL REQUEST:

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF MESSAGE	6004 – CANCEL BID
SCRIPID	CHAR(10)	THIS FIELD SHOULD CONTAIN THE SYMBOL OF COMPANY/IPO	
APPLICATIONNO	CHAR(16)	THIS FIELD SHOULD CONTAIN APPLICATION NO OF THE IPO FORM.	
CATEGORY	CHAR(5)	CONTAINS THE CATEGORY AS MENTIONED IN THE IPO FORM “RIC” FOR RIGHTS ISSUE	
ORDERNO	CHAR(16)	VENDOR ‘S UNIQUE ID	
MEMBERCODE	CHAR(10)	THIS FIELD SHOULD CONTAIN THE MEMBER CODE	
LOGINID	CHAR(15)	THIS FIELD SHOULD CONTAIN LOGIN ID	
BRANCHCODE	CHAR(10)	THIS FIELD SHOULD CONTAIN THE BRANCH CODE	
SESSION	CHAR(50)	LOGIN SESSION	
BID ID	CHAR(16)	NEED TO PROVIDE BID ID	
ACTION CODE	CHAR(1)	D:-CANCELLATION	

4.4 ORDER CANCEL RESPONSE:

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF MESSAGE	7004 – CANCEL BID
SCRIPID	CHAR(10)	THIS FIELD WOULD CONTAIN THE SYMBOL OF COMPANY/IPO	
APPLICATIONNO	CHAR(16)	THIS FIELD WOULD CONTAIN APPLICATION NO OF THE IPO FORM SENT IN USER REQUEST	
CATEGORY	CHAR(5)	CONTAINS THE CATEGORY AS MENTIONED IN THE IPO FORM “RIC” FOR RIGHTS ISSUE	
ORDERNO	CHAR(16)	VENDOR ‘S UNIQUE ID	
MEMBERCODE	CHAR(10)	THIS FIELD WOULD CONTAIN THE MEMBER CODE	
LOGINID	CHAR(15)	THIS FIELD WOULD CONTAIN LOGIN ID	
BRANCHCODE	CHAR(10)	THIS FIELD WOULD CONTAIN THE BRANCH CODE	
SESSION	CHAR(50)	LOGIN SESSION	
BID ID	CHAR(16)	PROVIDED BID ID	
ACTION TIME	CHAR(19)	DD-MM-YYYY HH24:MM:SS	
ACTION CODE	CHAR(1)	D:-CANCELLATION	
ERRORCODE	CHAR(3)	ERROR CODE INDICATING SUCCESS / FAILURE 0 – SUCCESSFUL OTHERS – FAILURE	
MESSAGE	CHAR(250)	SYSTEM WOULD RETURN ‘SUCCESS’ IN CASE OF THE REQUEST GETTING COMPLETED SUCCESSFULLY IN CASE OF ERROR, THE SYSTEM WOULD RETURN THE ERROR MESSAGE	

5. BID, T+1 & DELTA DOWNLOAD REQUEST / RESPONSE

5.1 BID/T+1 DOWNLOAD REQUEST:

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF MESSAGE	6005 – T+1 6006 – BID
LOGINID	CHAR(15)	THIS FIELD SHOULD CONTAIN LOGIN ID	
MEMBERCODE	CHAR(10)	THIS FIELD SHOULD CONTAIN THE MEMBER CODE.	
BRANCHCODE	CHAR(10)	BRANCH CODE	
SESSION	CHAR(50)	LOGIN SESSION	
LASTDATE	CHAR(11)	THE LAST DATE FROM WHICH THE DATA IS REQUIRED TO BE FETCHED	DD MMM YYYY FORMAT
LASTTIME	CHAR(8)	THE LAST TIME FROM WHICH THE DATA IS REQUIRED TO BE FETCHED	HH24:MI:SS FORMAT
SCRIPID	CHAR(10)	THIS FIELD SHOULD CONTAIN SYMBOL OF COMPANY/IPO	

5.2 BID/T+1 DOWNLOAD RESPONSE:

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF MESSAGE	7005 – T+1 7006 – BID
SCRIPID	CHAR(10)	THIS FIELD WOULD CONTAIN SYMBOL OF COMPANY/IPO	
APPLICATIONNO	CHAR(16)	THIS FIELD WOULD CONTAIN APPLICATION NO OF THE IPO FORM SENT IN USER REQUEST	
CATEGORY	CHAR(5)	CONTAINS THE CATEGORY AS MENTIONED IN THE IPO FORM "RIC" FOR RIGHTS ISSUE	
APPLICANT NAME	CHAR(50)	CLIENT OR APPLICANT NAME AS MENTIONED IN USER REQUEST	
DEPOSITORY	CHAR(4)	THIS FIELD WOULD CONTAIN ONLY CDSL OR NSDL MENTIONED IN USER REQUEST	
DPID	CHAR(8)	IF CDSL THEN VALUE WILL BE 0 ELSE FOR NSDL 8 CHARACTER VALUE SHOULD BE INSERTED.	
CLIENT/BENF. ID	CHAR(16)	IF CDSL THEN VALUE SHOULD BE 16 ELSE FOR NSDL 8 CHARACTER VALUE SHOULD BE INSERTED.	
QUANTITY	CHAR(11)	THIS FIELD WOULD CONTAIN BID QUANTITY	
RATE	CHAR(7)	THIS FIELD WOULD CONTAIN BID PRICE	
CHEQUE RECEIVED FLAG	CHAR(1)	CONTAINS Y OR N	
CUTOFFFLAG	CHAR(1)	CONTAINS 0 OR 1, "1" FOR CUT OFF ELSE MENTION 0 FOR PRICE BID FOR RIGHT ISSUE THE VALUE SHOULD BE 0	
CHEQUE AMOUNT	CHAR(12)	CHEQUE AMOUNT RECEIVED FROM APPLICANT	
PAN NO	CHAR(10)	THIS FIELD WOULD CONTAIN PAN NO OF APPLICANT	
BANK NAME	CHAR(6)	FOR BANKS THE VALUE WILL BE 0 FOR MEMBER-ASBA VALUE WILL BE RBI CODE FOR MEMBER-NON ASBA VALUE WILL BE 9999	

LOCATION	CHAR(6)	FOR BANKS THE VALUE WILL BE 0 FOR MEMBER-ASBA VALUE WILL BE LOCATION CODE FOR MEMBER-NON ASBA VALUE WILL BE NASBAL FOR RIGHTS ISSUE THE VALUE WILL BE 0.	
ACCOUNT NUMBER	CHAR(16)	THIS FIELD WOULD CONTAIN ACCOUNT NO OF THE APPLICANT	
IFSC CODE	CHAR(11)	FOR MEMBERS: NON MANDATORY FOR BANKS: CONTAINS IFSC CODE	
CHEQUE NO	CHAR(16)	CHEQUE NUMBER	
BANK REFERENCE NO	CHAR(16)	BANK REFERENCE NO. OF THE BANK	
BID ID	CHAR(16)	VALID BID ID GENERATED BY THE IBBS	
ACTION CODE	CHAR(1)	N:- NEW,M:- MODIFY	
RTA RESPONSP	CHAR(50)	RTA RESPONSE IF ANY	
ENTRYDATETIME	CHAR(19)	BIDDING DATE & TIME (DD-MM-YYYY) TIME (HH:MM:SS)	
LASTMODIFIEDDATETIME	CHAR(19)	LAST MODIFICATION DATE TIME DATE (DD-MM-YYYY) TIME (HH:MM:SS)	
SCRIPCODE	CHAR(6)	INTERNAL ID MAINTAINED BY THE IBBS	
BRANCHCODE	CHAR(10)	THIS FIELD WOULD CONTAIN THE BRANCH CODE	
LOGIN ID	CHAR(15)	THIS FIELD WOULD CONTAIN LOGIN ID	
ORDERNO	CHAR(16)	VENDOR'S UNIQUE ID	
ERRORCODE	CHAR(3)	CODE INDICATING SUCCESS / FAILURE 0 – SUCCESSFUL OTHERS – FAILURE	
MESSAGE	CHAR(250)	IN CASE OF ERROR, THE SYSTEM WOULD RETURN THE ERROR MESSAGE	

5.3 DELTA DOWNLOADS REQUEST FOR NEW/MODIFY/CANCELLED BIDS:

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF MESSAGE	6007-DELTA DOWNLOAD
LOGINID	CHAR(15)	THIS FIELD SHOULD CONTAIN LOGIN ID	
MEMBERCODE	CHAR(10)	THIS FIELD SHOULD CONTAIN THE MEMBER CODE.	
BRANCHCODE	CHAR(10)	BRANCH CODE	
SESSION ID	CHAR(50)	LOGIN SESSION	
LASTDATE	CHAR(11)	THE LAST DATE FROM WHICH THE DATA IS REQUIRED TO BE FETCHED	DD MMM YYYY FORMAT
LASTTIME	CHAR(8)	THE LAST TIME FROM WHICH THE DATA IS REQUIRED TO BE FETHCED	HH24:MI:SS FORMAT
SCRIPID	CHAR(10)	THIS FIELD SHOULD CONTAIN SYMBOL OF COMPANY/IPO	

5.4 DELTA DOWNLOADS RESPONSE FOR NEW/MODIFY/CANCELLED BIDS:

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF MESSAGE	7007-DELTA DOWNLOAD
SCRIPID	CHAR(10)	THIS FIELD SHOULD CONTAIN SYMBOL OF COMPANY/IPO	
APPLICATIONNO	CHAR(16)	THIS FIELD WOULD CONTAIN APPLICATION NO OF THE IPO FORM SENT IN USER REQUEST	
CATEGORY	CHAR(5)	CONTAINS THE CATEGORY AS MENTIONED IN THE IPO FORM "RIC" FOR RIGHTS ISSUE	
APPLICANT NAME	CHAR(50)	CLIENT OR APPLICANT NAME AS ON THE APPLICATION FORM	
DEPOSITORY	CHAR(4)	THIS FIELD WOULD CONTAIN ONLY CDSL OR NSDL MENTIONED IN USER REQUEST	
DPID	CHAR(8)	IF CDSL THEN VALUE WILL BE 0 ELSE FOR NSDL 8 CHARACTER VALUE SHOULD BE INSERTED	
CLIENT/BENF. ID	CHAR(16)	IF CDSL THEN VALUE SHOULD BE 16 ELSE FOR NSDL 8 CHARACTER VALUE SHOULD BE INSERTED	
QUANTITY	CHAR(11)	THIS FIELD WOULD CONTAIN BID QUANTITY	
RATE	CHAR(7)	THIS FIELD WOULD CONTAIN BID PRICE	
CHEQUE RECEIVED FLAG	CHAR(1)	CONTAINS Y OR N	
CUTTOFFFLAG	CHAR(1)	CONTAINS 0 OR 1, "1" FOR CUT OFF ELSE MENTION 0 FOR PRICE BID. FOR RIGHT ISSUE THE VALUE SHOULD BE 0	
CHEQUE AMOUNT	CHAR(12)	CHEQUE AMOUNT RECEIVED FROM APPLICANT	
PAN NO	CHAR(10)	THIS FIELD WOULD CONTAIN PAN NO OF APPLICANT	
BANK NAME	CHAR(6)	FOR BANKS THE VALUE WILL BE 0 FOR MEMBER-ASBA VALUE WILL BE RBI CODE FOR MEMBER-NON ASBA VALUE WILL BE 9999	
LOCATION	CHAR(6)	FOR BANKS THE VALUE WILL BE 0 FOR MEMBER-ASBA VALUE WILL BE LOCATION CODE	

		FOR MEMBER-NON ASBA VALUE WILL BE NASBAL FOR RIGHTS ISSUE THE VALUE WILL BE 0.	
ACCOUNT NUMBER	CHAR(16)	THIS FIELD WOULD CONTAIN ACCOUNT NO OF THE APPLICANT	
IFSC CODE	CHAR(11)	FOR MEMBERS: NON MANDATORY FOR BANKS: CONTAINS IFSC CODE	
BANK REFERENCE NO/CHEQUE NO	CHAR(16)	BANK REFERENCE NO MANDATORY FOR MEMBER NON-ASBA	
ORDERNO	CHAR(16)	VENDOR'S UNIQUE ID	
MEMBERCODE	CHAR(10)	THIS FIELD WOULD CONTAIN MEMBER CODE	
LOGINID	CHAR(15)	THIS FIELD WOULD CONTAIN LOGIN ID	
BRANCHCODE	CHAR(10)	THIS FIELD WOULD CONTAIN THE BRANCH CODE.	
SESSIONID	CHAR(50)	LOGIN SESSION	
BID ID	CHAR(16)	VALID BID ID GENERATED BY THE IBBS	
ACTION CODE	CHAR(1)	N:- NEW,M:- MODIFY,D:-DELETE	
ASBA/NON ASBA	CHAR(1)	0:- ASBA,1:-NON-ASBA,2:OTHERS(BANK USERS)	
ERRORCODE	CHAR(3)	CODE INDICATING SUCCESS / FAILURE 0 – SUCCESSFUL OTHERS – FAILURE	
MESSAGE	CHAR(250)	IN CASE OF ERROR, THE SYSTEM WOULD RETURN THE ERROR MESSAGE	

DEBT:

6. ORDER ENTRY, MODIFICATION & CANCELLATION REQUEST / RESPONSE

6.1 ORDER ENTRY/MODIFICATION REQUEST

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF DEBT MESSAGE	6009 – NEW BID 6010 – MODIFY BID
SCRIPID	CHAR(10)	THIS FIELD SHOULD CONTAIN DEBT SYMBOL OF COMPANY/IPO	
APPLICATIONNO	CHAR(16)	THIS FIELD SHOULD CONTAIN APPLICATION NO OF THE DEBT IPO FORM.	
CATEGORY	CHAR(5)	CONTAINS THE CATEGORY AS MENTIONED IN THE DEBT IPO FORM.	
APPLICANT NAME	CHAR(50)	CLIENT OR APPLICANT NAME AS ON THE APPLICATION FORM. FOR PHYSICAL MODE APPLICATION APPLICANT NAME IS MANDATORY.	
DEPOSITORY	CHAR(4)	THIS FIELD SHOULD CONTAIN ONLY CDSL OR NSDL . KEEP THE FIELD BLANK IN CASE OF PHYSICAL MODE APPLICATION.	
DPID	CHAR(8)	IF CDSL THEN VALUE WILL BE 0 ELSE FOR NSDL 8 CHARACTER VALUE SHOULD BE PROVIDED. KEEP THE FIELD BLANK IN CASE OF PHYSICAL MODE APPLICATION	
CLIENT/BENF. ID	CHAR(16)	IF CDSL THEN VALUE SHOULD BE 16 ELSE FOR NSDL 8 CHARACTER VALUE SHOULD BE PROVIDED. KEEP THE FIELD BLANK IN CASE OF PHYSICAL MODE APPLICATION	
QUANTITY	CHAR(11)	THIS FIELD SHOULD CONTAIN BID QUANTITY	
RATE	CHAR(7)	THIS FIELD SHOULD CONTAIN BID PRICE	
CHEQUE RECEIVED FLAG	CHAR(1)	CONTAINS Y OR N	
CUTOFFFLAG	CHAR(1)	CONTAINS 0 FOR DEBT ISUSE.	
CHEQUE AMOUNT	CHAR(12)	CHEQUE AMOUNT RECEIVED FROM APPLICANT	
TOTAL QTY	CHAR(12)	TOTAL QTY AGAINST THE APPLICATION	
PAN NO	CHAR(10)	THIS FIELD SHOULD CONTAIN PAN NO OF APPLICANT	
BANK NAME	CHAR(6)	FOR BANKS THE VALUE WILL BE 0. FOR MEMBER-ASBA VALUE WILL BE RBI CODE. FOR MEMBER-NON ASBA VALUE WILL BE 9999.	
LOCATION	CHAR(6)	FOR BANKS THE VALUE WILL BE 0 FOR MEMBER-ASBA VALUE WILL BE LOCATION	

		CODE FOR MEMBER-NON ASBA VALUE WILL BE NASBAL.	
ACCOUNT NUMBER	CHAR(16)	THIS FIELD SHOULD CONTAIN ACCOUNT NO OF THE APPLICANT	
IFSC CODE	CHAR(11)	FOR MEMBERS: NON MANDATORY FOR BANKS: CONTAINS IFSC CODE	
BANK REFERENCE NO/CHEQUE NO	CHAR(16)	OPTIONAL FOR BANK OPTIONAL FOR MEMBER ASBA MANDATORY FOR MEMBER NON-ASBA	
ORDERNO	CHAR(16)	VENDOR 'S UNIQUE ID	
MEMBER CODE	CHAR((10))	THIS FIELD SHOULD CONTAIN THE MEMBER CODE	
LOGINID	CHAR(15)	THIS FIELD SHOULD CONTAIN LOGIN ID	
BRANCHCODE	CHAR(10)	THIS FIELD SHOULD CONTAIN BRANCH CODE.	
SESSION	CHAR(50)	LOGIN SESSION	
TYPE	CHAR(1)	1-DEMAT 0-PHYSICAL ASBA HAVE TO MANDATORILY BID IN DEMAT MODE	
SERIES	CHAR(2)	SERIES ASSOCIATED WITH EACH DEBT CATEGORY.	
BID ID	CHAR(16)	IN CASE OF NEW BID BID ID SHOULD BE BLANK. INCASE OF MODIFICATION/CANCELLATION NEED TO PROVIDE BID ID.	
ACTION CODE	CHAR(1)	N:- NEW,M:- MODIFY	
ASBA/NON ASBA	CHAR(1)	0:- ASBA,1:-NON-ASBA,2:OTHERS(BANK USERS)	

6.2 ORDER ENTRY/MODIFICATION RESPONSE

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF DEBT MESSAGE	7009 – NEW BID 7010 – MODIFY BID
SCRIPID	CHAR(10)	THIS FIELD SHOULD CONTAIN DEBT SYMBOL OF COMPANY/IPO	
APPLICATIONNO	CHAR(16)	THIS FIELD SHOULD CONTAIN APPLICATION NO OF THE DEBT IPO FORM.	
CATEGORY	CHAR(5)	CONTAINS THE CATEGORY AS MENTIONED IN THE DEBT IPO FORM.	
APPLICANT NAME	CHAR(50)	CLIENT OR APPLICANT NAME AS ON THE APPLICATION FORM. FOR PHYSICAL MODE APPLICATION APPLICANT NAME IS MANDATORY.	
DEPOSITORY	CHAR(4)	THIS FIELD SHOULD CONTAIN ONLY CDSL OR NSDL. KEEP THE FIELD BLANK IN CASE OF PHYSICAL MODE APPLICATION.	
DPID	CHAR(8)	IF CDSL THEN VALUE WILL BE 0 ELSE FOR NSDL 8 CHARACTER VALUE SHOULD BE PROVIDED. KEEP THE FIELD BLANK IN CASE OF PHYSICAL MODE APPLICATION	
CLIENT/BENF. ID	CHAR(16)	IF CDSL THEN VALUE SHOULD BE 16 ELSE FOR NSDL 8 CHARACTER VALUE SHOULD BE PROVIDED. KEEP THE FIELD BLANK IN CASE OF PHYSICAL MODE APPLICATION	
QUANTITY	CHAR(11)	THIS FIELD SHOULD CONTAIN BID QUANTITY	
RATE	CHAR(7)	THIS FIELD SHOULD CONTAIN BID PRICE	
CHEQUE RECEIVED FLAG	CHAR(1)	CONTAINS Y OR N	
CUTOFFFLAG	CHAR(1)	CONTAINS 0 FOR DEBT ISUSE.	
CHEQUE AMOUNT	CHAR(12)	CHEQUE AMOUNT RECEIVED FROM APPLICANT	
TOTAL QTY	CHAR(12)	TOTAL QTY AGAINST THE APPLICATION	
PAN NO	CHAR(10)	THIS FIELD SHOULD CONTAIN PAN NO OF APPLICANT	
BANK NAME	CHAR(6)	FOR BANKS THE VALUE WILL BE 0 FOR MEMBER-ASBA VALUE WILL BE RBI CODE FOR MEMBER-NON ASBA VALUE WILL BE 9999	

LOCATION	CHAR(6)	FOR BANKS THE VALUE WILL BE 0 FOR MEMBER-ASBA VALUE WILL BE LOCATION CODE FOR MEMBER-NON ASBA VALUE WILL BE NASBAL.	
ACCOUNT NUMBER	CHAR(16)	THIS FIELD SHOULD CONTAIN ACCOUNT NO OF THE APPLICANT	
IFSC CODE	CHAR(11)	FOR MEMBERS: NON MANDATORY FOR BANKS: CONTAINS IFSC CODE	
BANK REFERENCE NO/CHEQUE NO	CHAR(16)	OPTIONAL FOR BANK OPTIONAL FOR MEMBER ASBA MANDATORY FOR MEMBER NON-ASBA	
ORDERNO	CHAR(16)	VENDOR'S UNIQUE ID	
MEMBER CODE	CHAR(10)	THIS FIELD SHOULD CONTAIN THE MEMBER CODE	
LOGINID	CHAR(15)	THIS FIELD SHOULD CONTAIN LOGIN ID	
BRANCHCODE	CHAR(10)	THIS FIELD SHOULD CONTAIN BRANCH CODE.	
SESSION	CHAR(50)	LOGIN SESSION	
TYPE	CHAR(1)	1-DEMAT 0-PHYSICAL ASBA HAVE TO MANDATORILY BID IN DEMAT MODE	
SERIES	CHAR(2)	SERIES ASSOCIATED WITH EACH DEBT CATEGORY.	
BID ID	CHAR(16)	IN CASE OF NEW BID SHOULD BE BLANK. INCASE OF MODIFICATION/CANCELLATION NEED TO PROVIDE BID ID	
ACTION TIME	CHAR(19)	DD-MM-YYYY HH24:MM:SS	
ACTION CODE	CHAR(1)	N:- NEW,M:- MODIFY	
ASBA/NON ASBA	CHAR(1)	0:- ASBA,1:-NON-ASBA,2:OTHERS(BANK USERS)	
ERRORCODE	CHAR(3)	ERROR CODE INDICATING SUCCESS / FAILURE 0 – SUCCESSFUL OTHERS – FAILURE	
MESSAGE	CHAR(250)	SYSTEM WOULD RETURN 'SUCCESS' IN CASE OF THE REQUEST GETTING COMPLETED SUCCESSFULLY IN CASE OF ERROR, THE SYSTEM WOULD RETURN THE ERROR MESSAGE	

6.3 ORDER CANCELLATION REQUEST

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF DEBT MESSAGE	6011 – CANCEL BID
SCRIPID	CHAR(10)	THIS FIELD SHOULD CONTAIN THE DEBT SYMBOL OF COMPANY/IPO	
APPLICATIONNO	CHAR(16)	THIS FIELD SHOULD CONTAIN APPLICATION NO OF THE DEBT IPO FORM.	
CATEGORY	CHAR(5)	CONTAINS THE CATEGORY AS MENTIONED IN THE DEBT IPO FORM	
ORDERNO	CHAR(16)	VENDOR 'S UNIQUE ID	
MEMBERCODE	CHAR(10)	THIS FIELD SHOULD CONTAIN THE MEMBER CODE	
LOGINID	CHAR(15)	THIS FIELD SHOULD CONTAIN LOGIN ID	
BRANCHCODE	CHAR(10)	THIS FIELD SHOULD CONTAIN THE BRANCH CODE	
SESSION	CHAR(50)	LOGIN SESSION	
SERIES	CHAR(2)	SERIES ASSOCIATED WITH EACH DEBT CATEGORY.	
BID ID	CHAR(16)	NEED TO PROVIDE BID ID	
ACTION CODE	CHAR(1)	D:-CANCELLATION	

6.4 ORDER CANCELLATION RESPONSE

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF DEBT MESSAGE	7011 – CANCEL BID
SCRIPID	CHAR(10)	THIS FIELD WOULD CONTAIN THE DEBT SYMBOL OF COMPANY/IPO	
APPLICATIONNO	CHAR(16)	THIS FIELD WOULD CONTAIN APPLICATION NO OF THE DEBT IPO FORM	
CATEGORY	CHAR(5)	CONTAINS THE CATEGORY AS MENTIONED IN THE DEBT IPO FORM	
ORDERNO	CHAR(16)	VENDOR 'S UNIQUE ID	
MEMBERCODE	CHAR((10))	THIS FIELD WOULD CONTAIN THE MEMBER CODE	
LOGINID	CHAR(15)	THIS FIELD WOULD CONTAIN LOGIN ID	
BRANCHCODE	CHAR(10)	THIS FIELD WOULD CONTAIN THE BRANCH CODE	
SESSION	CHAR(50)	LOGIN SESSION	
SERIES	CHAR(2)	SERIES ASSOCIATED WITH EACH DEBT CATEGORY.	
BID ID	CHAR(16)	PROVIDED BID ID	
ACTION TIME	CHAR(19)	DD-MM-YYYY HH24:MM:SS	
ACTION CODE	CHAR(1)	D:-CANCELLATION	
ERRORCODE	CHAR(3)	ERROR CODE INDICATING SUCCESS / FAILURE 0 – SUCCESSFUL OTHERS – FAILURE	
MESSAGE	CHAR(250)	SYSTEM WOULD RETURN 'SUCCESS' IN CASE OF THE REQUEST GETTING COMPLETED SUCCESSFULLY IN CASE OF ERROR, THE SYSTEM WOULD RETURN THE ERROR MESSAGE	

7. BID, T+1 & DELTA DOWNLOAD REQUEST / RESPONSE

7.1 BID/T+1 DOWNLOAD REQUEST:

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF DEBT MESSAGE	6012 – T+1 6013 – BID
LOGINID	CHAR(15)	THIS FIELD SHOULD CONTAIN LOGIN ID	
MEMBERCODE	CHAR(10)	THIS FIELD SHOULD CONTAIN THE MEMBER CODE.	
BRANCHCODE	CHAR(10)	BRANCH CODE	
SESSION	CHAR(50)	LOGIN SESSION	
LASTDATE	CHAR(11)	THE LAST DATE FROM WHICH THE DATA IS REQUIRED TO BE FETCHED	DD MMM YYYY FORMAT
LASTTIME	CHAR(8)	THE LAST TIME FROM WHICH THE DATA IS REQUIRED TO BE FETCHED	HH24:MI:SS FORMAT
SCRIPID	CHAR(10)	THIS FIELD SHOULD CONTAIN DEBT SYMBOL OF COMPANY/IPO	

7.2 BID/T+1 DOWNLOAD RESPONSE:

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF MESSAGE	7012 – T+1 7013 – BID
SCRIPID	CHAR(10)	THIS FIELD WOULD CONTAIN DEBT SYMBOL OF COMPANY/IPO	
APPLICATIONNO	CHAR(16)	THIS FIELD WOULD CONTAIN APPLICATION NO OF THE DEBT IPO FORM	
CATEGORY	CHAR(5)	CONTAINS THE CATEGORY AS MENTIONED IN THE DEBT IPO FORM	
APPLICANT NAME	CHAR(50)	CLIENT OR APPLICANT NAME AS MENTIONED DEBT IPO FORM	
DEPOSITORY	CHAR(4)	THIS FIELD WOULD CONTAIN ONLY CDSL OR NSDL FOR DEMAT MODE APPLICATION. THE FIELD WILL BE BLANK IN CASE OF PHYSICAL MODE APPLICATION	
DPID	CHAR(8)	IF CDSL THEN VALUE WILL BE 0 ELSE FOR NSDL 8 CHARACTER VALUE SHOULD BE INSERTED FOR DEMAT MODE APPLICATION. THE FIELD WILL BE BLANK IN CASE OF PHYSICAL MODE APPLICATION	
CLIENT/BENF. ID	CHAR(16)	IF CDSL THEN VALUE SHOULD BE 16 ELSE FOR NSDL 8 CHARACTER VALUE SHOULD BE INSERTED FOR DEMAT MODE APPLICATION . THE FIELD WILL BE BLANK IN CASE OF PHYSICAL MODE APPLICATION	
QUANTITY	CHAR(11)	THIS FIELD WOULD CONTAIN BID QUANTITY	
RATE	CHAR(7)	THIS FIELD WOULD CONTAIN BID PRICE	
CHEQUE RECEIVED FLAG	CHAR(1)	CONTAINS Y OR N	
CUTTOFFFLAG	CHAR(1)	CONTAINS 0	
CHEQUE AMOUNT	CHAR(12)	CHEQUE AMOUNT RECEIVED FROM APPLICANT	
PAN NO	CHAR(10)	THIS FIELD WOULD CONTAIN PAN NO OF APPLICANT	
BANK NAME	CHAR(6)	FOR BANKS THE VALUE WILL BE 0 FOR MEMBER-ASBA VALUE WILL BE RBI CODE FOR MEMBER-NON ASBA VALUE WILL BE	

		9999	
LOCATION	CHAR(6)	FOR BANKS THE VALUE WILL BE 0 FOR MEMBER-ASBA VALUE WILL BE LOCATION CODE FOR MEMBER-NON ASBA VALUE WILL BE NASBAL FOR RIGHTS ISSUE THE VALUE WILL BE 0.	
ACCOUNT NUMBER	CHAR(16)	THIS FIELD WOULD CONTAIN ACCOUNT NO OF THE APPLICANT	
IFSC CODE	CHAR(11)	FOR MEMBERS: NON MANDATORY FOR BANKS: CONTAINS IFSC CODE	
CHEQUE NO	CHAR(16)	CHEQUE NUMBER	
BANK REFERENCE NO	CHAR(16)	BANK REFERENCE NO. OF THE BANK	
TYPE	CHAR(1)	1-DEMAT 0-PHYSICAL ASBA HAVE TO MANDATORILY BID IN DEMAT MODE	
SERIES	CHAR(2)	SERIES ASSOCIATED WITH EACH DEBT CATEGORY.	
BID ID	CHAR(16)	VALID BID ID GENERATED BY THE IBBS	
ACTION CODE	CHAR(1)	N:- NEW,M:- MODIFY	
RTA RESPONSPPE	CHAR(50)	RTA RESPONSE IF ANY	
ENTRYDATETIME	CHAR(19)	BIDDING DATE & TIME (DD-MM-YYYY) TIME (HH:MM:SS)	
LASTMODIFIEDDATETIME	CHAR(19)	LAST MODIFICATION DATE TIME DATE (DD-MM-YYYY) TIME (HH:MM:SS)	
SCRIPCODE	CHAR(6)	INTERNAL ID MAINTAINED BY THE IBBS	
BRANCHCODE	CHAR(10)	THIS FIELD WOULD CONTAIN THE BRANCH CODE	
LOGIN ID	CHAR(15)	THIS FIELD WOULD CONTAIN LOGIN ID	
ORDERNO	CHAR(16)	VENDOR'S UNIQUE ID	

MODE OF PAYMENT	CHAR(2)	FOR MEMBER ASBA THE VALUE WILL BE '0' (ZERO). FOR MEMBER NON-ASBA THE VALUE WILL BE '1' (ONE). FOR BANK ASBA THE VALUE WILL BE '2' (TWO).	
MEMBER TYPE	CHAR(2)	FOR NON-SYNDICATE MEMBER THE VALUE WILL BE '0' (ZERO). FOR SYNDICATE MEMBER THE VALUE WILL BE '1' (ONE).	
ERRORCODE	CHAR(3)	CODE INDICATING SUCCESS / FAILURE 0 – SUCCESSFUL OTHERS – FAILURE	
MESSAGE	CHAR(250)	IN CASE OF ERROR, THE SYSTEM WOULD RETURN THE ERROR MESSAGE	

7.3 DELTA DOWNLOADS REQUEST FOR NEW/MODIFY/CANCELLED BIDS:

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF DEBT MESSAGE	6014-DELTA DOWNLOAD
LOGINID	CHAR(15)	THIS FIELD SHOULD CONTAIN LOGIN ID	
MEMBERCODE	CHAR(10)	THIS FIELD SHOULD CONTAIN THE MEMBER CODE.	
BRANCHCODE	CHAR(10)	BRANCH CODE	
SESSION ID	CHAR(50)	LOGIN SESSION	
LASTDATE	CHAR(11)	THE LAST DATE FROM WHICH THE DATA IS REQUIRED TO BE FETCHED	DD MMM YYYY FORMAT
LASTTIME	CHAR(8)	THE LAST TIME FROM WHICH THE DATA IS REQUIRED TO BE FETHCED	HH24:MI:SS FORMAT
SCRIPID	CHAR(10)	THIS FIELD SHOULD CONTAIN DEBT SYMBOL OF COMPANY/IPO	

7.4 DELTA DOWNLOADS RESPONSE FOR NEW/MODIFY/CANCELLED BIDS:

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF DEBT MESSAGE	7014-DELTA DOWNLOAD
SCRIPID	CHAR(10)	THIS FIELD SHOULD CONTAIN DEBT SYMBOL OF COMPANY/IPO	
APPLICATIONNO	CHAR(16)	THIS FIELD WOULD CONTAIN APPLICATION NO OF THE DEBT IPO FORM	
CATEGORY	CHAR(5)	CONTAINS THE CATEGORY AS MENTIONED IN THE DEBT IPO FORM	
APPLICANT NAME	CHAR(50)	CLIENT OR APPLICANT NAME AS ON THE APPLICATION FORM	
DEPOSITORY	CHAR(4)	THIS FIELD WOULD CONTAIN ONLY CDSL OR NSDL FOR DEMAT MODE APPLICATION. THE FIELD WILL BE BLANK FOR PHYSICAL MODE OF APPLICATION	
DPID	CHAR(8)	IF CDSL THEN VALUE WILL BE 0 ELSE FOR NSDL 8 CHARACTER VALUE SHOULD BE INSERTED FOR DEMAT MODE OF APPLICATION. FIELD WILL BE BLANK FOR PHYSICAL MODE OF APPLICATION.	
CLIENT/BENF. ID	CHAR(16)	IF CDSL THEN VALUE SHOULD BE 16 ELSE FOR NSDL 8 CHARACTER VALUE SHOULD BE INSERTED FOR DEMAT MODE OF APPLICATION. THE FIELD WILL BE BLANK FOR PHYSICAL MODE	
QUANTITY	CHAR(11)	THIS FIELD WOULD CONTAIN BID QUANTITY	
RATE	CHAR(7)	THIS FIELD WOULD CONTAIN BID PRICE	
CHEQUE RECEIVED FLAG	CHAR(1)	CONTAINS Y OR N	
CUTTOFFFLAG	CHAR(1)	CONTAINS 0 OR 1, "1" FOR CUT OFF ELSE MENTION 0 FOR PRICE BID. FOR RIGHT ISSUE THE VALUE SHOULD BE 0	
CHEQUE AMOUNT	CHAR(12)	CHEQUE AMOUNT RECEIVED FROM APPLICANT	
PAN NO	CHAR(10)	THIS FIELD WOULD CONTAIN PAN NO OF APPLICANT	
BANK NAME	CHAR(6)	FOR BANKS THE VALUE WILL BE 0 FOR MEMBER-ASBA VALUE WILL BE RBI CODE	

		FOR MEMBER-NON ASBA VALUE WILL BE 999	
LOCATION	CHAR(6)	FOR BANKS THE VALUE WILL BE 0 FOR MEMBER-ASBA VALUE WILL BE LOCATION CODE FOR MEMBER-NON ASBA VALUE WILL BE NASBAL FOR RIGHTS ISSUE THE VALUE WILL BE 0.	
ACCOUNT NUMBER	CHAR(16)	THIS FIELD WOULD CONTAIN ACCOUNT NO OF THE APPLICANT	
IFSC CODE	CHAR(11)	FOR MEMBERS: NON MANDATORY FOR BANKS: CONTAINS IFSC CODE	
BANK REFERENCE NO/CHEQUE NO	CHAR(16)	BANK REFERENCE NO MANDATORY FOR MEMBER NON-ASBA	
ORDERNO	CHAR(16)	VENDOR'S UNIQUE ID	
MEMBERCODE	CHAR((10))	THIS FIELD WOULD CONTAIN MEMBER CODE	
LOGINID	CHAR(15)	THIS FIELD WOULD CONTAIN LOGIN ID	
BRANCHCODE	CHAR(10)	THIS FIELD WOULD CONTAIN THE BRANCH CODE.	
SESSIONID	CHAR(50)	LOGIN SESSION	
TYPE	CHAR(1)	1-DEMAT 0-PHYSICAL ASBA HAVE TO MANDATORILY BID IN DEMAT MODE	
SERIES	CHAR(2)	SERIES ASSOCIATED WITH EACH DEBT CATEGORY.	
BID ID	CHAR(16)	VALID BID ID GENERATED BY THE IBBS	
ACTION CODE	CHAR(1)	N:- NEW,M:- MODIFY,D:-DELETE	
ASBA/NON ASBA	CHAR(1)	0:- ASBA,1:-NON-ASBA,2:OTHERS(BANK USERS)	
ERRORCODE	CHAR(3)	CODE INDICATING SUCCESS / FAILURE 0 – SUCCESSFUL OTHERS – FAILURE	
MESSAGE	CHAR(250)	IN CASE OF ERROR, THE SYSTEM WOULD RETURN THE ERROR MESSAGE	



OFS (OFFER FOR SALE)

8. ORDER ENTRY, MODIFICATION & CANCELLATION REQUEST / RESPONSE

8.1 ORDER ENTRY/MODIFICATION REQUEST

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4) +	TYPE OF OFS MESSAGE	6015 – NEW BID 6016 – MODIFY BID
SCRIPID	CHAR(10)	THIS FIELD SHOULD CONTAIN OFS SYMBOL OF COMPANY	
CATEGORY	CHAR(5)	THE FIELD CONTAINS CATEGORY ASSOCIATED WITH OFS.	
CLIENT/CPCODE	CHAR(16)	THIS FIELD CONTAINS CLIENT/CPCODE.	
UCC	CHAR(11)	THIS FIELD SHOULD CONTAIN UCC	
CUSTODIAN CODE	CHAR(12)	THIS FIELD SHOULD CONTAIN CUSTODIAN CODE.	
QUANTITY	CHAR(11)	THIS FIELD SHOULD CONTAIN BID QUANTITY	
RATE	CHAR(7)	THIS FIELD SHOULD CONTAIN BID PRICE	
MARGIN	CHAR(1)	THIS FIELD SHOULD CONTAINS "1" FOR FIXED MARGIN,"2" FOR 100% UPFRONT MARGIN	
ORDERNO	CHAR(16)	VENDOR 'S UNIQUE ID	
MEMBER CODE	CHAR(10)	THIS FIELD SHOULD CONTAIN THE MEMBER CODE	
LOGINID	CHAR(15)	THIS FIELD SHOULD CONTAIN LOGIN ID	
BRANCHCODE	CHAR(10)	THIS FIELD SHOULD CONTAIN BRANCH CODE.	
SESSION	CHAR(50)	LOGIN SESSION	
BID ID	CHAR(16)	IN CASE OF NEW BID BID ID SHOULD BE BLANK. INCASE OF MODIFICATION/CANCELLATION NEED TO PROVIDE BID ID.	
ACTION CODE	CHAR(1)	N:- NEW,M:- MODIFY	
ASBA/NON ASBA	CHAR(1)	1:-NON-ASBA	

8.2 ORDER ENTRY/MODIFICATION RESPONSE

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF OFS MESSAGE	7015 – NEW BID 7016 – MODIFY BID
SCRIPID	CHAR(10)	THIS FIELD SHOULD CONTAIN OFS SYMBOL OF COMPANY	
CATEGORY	CHAR(5)	THE FIELD CONTAINS CATEGORY ASSOCIATED WITH OFS.	
CLIENT/CPCODE	CHAR(16)	THIS FIELD CONTAINS CLIENT/CPCODE.	
UCC	CHAR(11)	THIS FIELD SHOULD CONTAIN UCC	
CUSTODIAN CODE	CHAR(12)	THIS FIELD SHOULD CONTAIN CUSTODIAN CODE.	
QUANTITY	CHAR(11)	THIS FIELD SHOULD CONTAIN BID QUANTITY	
RATE	CHAR(7)	THIS FIELD SHOULD CONTAIN BID PRICE	
MARGIN	CHAR(1)	THIS FIELD SHOULD CONTAINS "1" FOR FIXED MARGIN,"2" FOR 100% UPFRONT MARGIN	
ORDERNO	CHAR(16)	VENDOR 'S UNIQUE ID	
MEMBER CODE	CHAR((10))	THIS FIELD SHOULD CONTAIN THE MEMBER CODE	
LOGINID	CHAR(15)	THIS FIELD SHOULD CONTAIN LOGIN ID	
BRANCHCODE	CHAR(10)	THIS FIELD SHOULD CONTAIN BRANCH CODE.	
SESSION	CHAR(50)	LOGIN SESSION	
BID ID	CHAR(16)	NEW GENERATED OR MODIFIED BID ID	
ACTION TIME	CHAR(19)	DD-MM-YYYY HH24:MM:SS	
ACTION CODE	CHAR(1)	N:- NEW,M:- MODIFY	
ASBA/NON ASBA	CHAR(1)	1:-NON-ASBA	
ERRORCODE	CHAR(3)	ERROR CODE INDICATING SUCCESS / FAILURE 0 – SUCCESSFUL OTHERS – FAILURE	
MESSAGE	CHAR(250)	SYSTEM WOULD RETURN 'SUCCESS' IN CASE OF THE REQUEST GETTING COMPLETED SUCCESSFULLY IN CASE OF ERROR, THE SYSTEM WOULD RETURN THE ERROR MESSAGE	

8.3 ORDER CANCEL REQUEST:

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF OFS MESSAGE	6017– CANCEL BID
SCRIPID	CHAR(10)	THIS FIELD SHOULD CONTAIN THE OFS SYMBOL	
CATEGORY	CHAR(5)	CONTAINS THE OFS CATEGORY	
ORDERNO	CHAR(16)	VENDOR'S UNIQUE ID	
MEMBERCODE	CHAR(10)	THIS FIELD SHOULD CONTAIN THE MEMBER CODE	
LOGINID	CHAR(15)	THIS FIELD SHOULD CONTAIN LOGIN ID	
BRANCHCODE	CHAR(10)	THIS FIELD SHOULD CONTAIN THE BRANCH CODE	
SESSION	CHAR(50)	LOGIN SESSION	
BID ID	CHAR(16)	NEED TO PROVIDE BID ID	
ACTION CODE	CHAR(1)	D:-CANCELLATION	

8.4 ORDER CANCEL RESPONSE:

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF OFS MESSAGE	7017 – CANCEL BID
SCRIPID	CHAR(10)	THIS FIELD WOULD CONTAIN THE OFS SYMBOL OF COMPANY	
CATEGORY	CHAR(5)	CONTAINS THE OFS CATEGORY	
ORDERNO	CHAR(16)	VENDOR 'S UNIQUE ID	
MEMBERCODE	CHAR(10)	THIS FIELD WOULD CONTAIN THE MEMBER CODE	
LOGINID	CHAR(15)	THIS FIELD WOULD CONTAIN LOGIN ID	
BRANCHCODE	CHAR(10)	THIS FIELD WOULD CONTAIN THE BRANCH CODE	
SESSION	CHAR(50)	LOGIN SESSION	
BID ID	CHAR(16)	PROVIDED BID ID	
ACTION TIME	CHAR(19)	DD-MM-YYYY HH24:MM:SS	
ACTION CODE	CHAR(1)	D:-CANCELLATION	
ERRORCODE	CHAR(3)	ERROR CODE INDICATING SUCCESS / FAILURE 0 – SUCCESSFUL OTHERS – FAILURE	
MESSAGE	CHAR(250)	SYSTEM WOULD RETURN 'SUCCESS' IN CASE OF THE REQUEST GETTING COMPLETED SUCCESSFULLY IN CASE OF ERROR, THE SYSTEM WOULD RETURN THE ERROR MESSAGE	

9. BID, CUSTODIAN REJECTION, ALLOTMENT & DELTA DOWNLOAD REQUEST / RESPONSE

9.1 BID DOWNLOAD REQUEST:

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF OFS MESSAGE	6018
LOGINID	CHAR(15)	THIS FIELD SHOULD CONTAIN LOGIN ID	
MEMBERCODE	CHAR(10)	THIS FIELD SHOULD CONTAIN THE MEMBER CODE.	
BRANCHCODE	CHAR(10)	BRANCH CODE	
SESSION	CHAR(50)	LOGIN SESSION	
LASTDATE	CHAR(11)	THE LAST DATE FROM WHICH THE DATA IS REQUIRED TO BE FETCHED	DD MMM YYYY FORMAT
LASTTIME	CHAR(8)	THE LAST TIME FROM WHICH THE DATA IS REQUIRED TO BE FETHCED	HH24:MI:SS FORMAT
SCRIPID	CHAR(10)	THIS FIELD SHOULD CONTAIN OFS SYMBOL OF COMPANY	

9.2 BID DOWNLOAD RESPONSE:

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF OFS MESSAGE	7018
SCRIPID	CHAR(10)	THIS FIELD WOULD CONTAIN OFS SYMBOL OF COMPANY	
CATEGORY	CHAR(5)	CONTAINS THE OFS CATEGORY	
CLIENT/CPCODE	CHAR(16)	THIS FIELD CONTAINS CLIENT/CPCODE.	
UCC	CHAR(11)	THIS FIELD WILL CONTAIN UCC	
CUSTODIAN CODE	CHAR(12)	THIS FIELD WILL CONTAIN CUSTODIAN CODE.	
QUANTITY	CHAR(11)	THIS FIELD WILL CONTAIN BID QUANTITY	
RATE	CHAR(7)	THIS FIELD WILL CONTAIN BID PRICE	
BID ID	CHAR(16)	VALID BID ID GENERATED BY THE IBBS	
ENTRYDATETIME	CHAR(19)	BIDDING DATE & TIME (DD-MM-YYYY) TIME (HH:MM:SS)	
LASTMODIFIEDDATETIME	CHAR(19)	LAST MODIFICATION DATE TIME DATE (DD-MM-YYYY) TIME (HH:MM:SS)	
MARGIN	CHAR(1)	THIS FIELD SHOULD CONTAINS "1" FOR FIXED MARGIN,"2" FOR 100% UPFRONT MARGIN	
SCRIPCODE	CHAR(6)	INTERNAL ID MAINTAINED BY THE IBBS	
BRANCHCODE	CHAR(10)	THIS FIELD WOULD CONTAIN THE BRANCH CODE	
LOGIN ID	CHAR(15)	THIS FIELD WOULD CONTAIN LOGIN ID	
ORDERNO	CHAR(16)	VENDOR'S UNIQUE ID	
ERRORCODE	CHAR(3)	CODE INDICATING SUCCESS / FAILURE 0 – SUCCESSFUL OTHERS – FAILURE	
MESSAGE	CHAR(250)	IN CASE OF ERROR, THE SYSTEM WOULD RETURN THE ERROR MESSAGE	

9.3 CUSTODIAN REJECTED BID DOWNLOAD REQUEST:

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF OFS MESSAGE	6020
LOGINID	CHAR(15)	THIS FIELD SHOULD CONTAIN LOGIN ID	
MEMBERCODE	CHAR(10)	THIS FIELD SHOULD CONTAIN THE MEMBER CODE.	
BRANCHCODE	CHAR(10)	BRANCH CODE	
SESSION	CHAR(50)	LOGIN SESSION	
LASTDATE	CHAR(11)	THE LAST DATE FROM WHICH THE DATA IS REQUIRED TO BE FETCHED	DD MMM YYYY FORMAT
LASTTIME	CHAR(8)	THE LAST TIME FROM WHICH THE DATA IS REQUIRED TO BE FETHCED	HH24:MI:SS FORMAT
SCRIPTID	CHAR(10)	THIS FIELD SHOULD CONTAIN OFS SYMBOL OF COMPANY	

9.4 CUSTODIAN REJECTED BID DOWNLOAD RESPONSE:

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF OFS MESSAGE	7020
SCRIPID	CHAR(10)	THIS FIELD WOULD CONTAIN OFS SYMBOL OF COMPANY	
CATEGORY	CHAR(5)	CONTAINS THE OFS CATEGORY	
CLIENT/CPCODE	CHAR(16)	THIS FIELD CONTAINS CLIENT/CPCODE.	
UCC	CHAR(11)	THIS FIELD WILL CONTAIN UCC	
CUSTODIAN CODE	CHAR(12)	THIS FIELD WILL CONTAIN CUSTODIAN CODE.	
QUANTITY	CHAR(11)	THIS FIELD WILL CONTAIN BID QUANTITY	
RATE	CHAR(7)	THIS FIELD WILL CONTAIN BID PRICE	
BID ID	CHAR(16)	VALID BID ID GENERATED BY THE IBBS	
ENTRYDATETIME	CHAR(19)	BIDDING DATE & TIME (DD-MM-YYYY) TIME (HH:MM:SS)	
LASTMODIFIEDDATETIME	CHAR(19)	LAST MODIFICATION DATE TIME DATE (DD-MM-YYYY) TIME (HH:MM:SS)	
MARGIN	CHAR(1)	THIS FIELD SHOULD CONTAINS "1" FOR FIXED MARGIN,"2" FOR 100% UPFRONT MARGIN	
SCRIPCODE	CHAR(6)	INTERNAL ID MAINTAINED BY THE IBBS	
BRANCHCODE	CHAR(10)	THIS FIELD WOULD CONTAIN THE BRANCH CODE	
LOGIN ID	CHAR(15)	THIS FIELD WOULD CONTAIN LOGIN ID	
ORDERNO	CHAR(16)	VENDOR'S UNIQUE ID	
ERRORCODE	CHAR(3)	CODE INDICATING SUCCESS / FAILURE 0 – SUCCESSFUL OTHERS – FAILURE	
MESSAGE	CHAR(250)	IN CASE OF ERROR, THE SYSTEM WOULD RETURN THE ERROR MESSAGE	

9.5 DELTA DOWNLOAD REQUEST FOR NEW/MODIFY/CANCEL

BIDS:

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF OFS MESSAGE	6019
LOGINID	CHAR(15)	THIS FIELD SHOULD CONTAIN LOGIN ID	
MEMBERCODE	CHAR(10)	THIS FIELD SHOULD CONTAIN THE MEMBER CODE.	
BRANCHCODE	CHAR(10)	BRANCH CODE	
SESSION	CHAR(50)	LOGIN SESSION	
LASTDATE	CHAR(11)	THE LAST DATE FROM WHICH THE DATA IS REQUIRED TO BE FETCHED	DD MMM YYYY FORMAT
LASTTIME	CHAR(8)	THE LAST TIME FROM WHICH THE DATA IS REQUIRED TO BE FETHCED	HH24:MI:SS FORMAT
SCRIPID	CHAR(10)	THIS FIELD SHOULD CONTAIN OFS SYMBOL OF COMPANY	

9.6 DELTA DOWNLOAD RESPONSE FOR NEW/MODIFY/CANCEL BIDS:

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF OFS MESSAGE	7019
SCRIPID	CHAR(10)	THIS FIELD WOULD CONTAIN OFS SYMBOL OF COMPANY	
CATEGORY	CHAR(5)	CONTAINS THE OFS CATEGORY	
CLIENT/CPCODE	CHAR(16)	THIS FIELD CONTAINS CLIENT/CPCODE.	
UCC	CHAR(11)	THIS FIELD WILL CONTAIN UCC	
CUSTODIAN CODE	CHAR(12)	THIS FIELD WILL CONTAIN CUSTODIAN CODE.	
QUANTITY	CHAR(11)	THIS FIELD WILL CONTAIN BID QUANTITY	
RATE	CHAR(7)	THIS FIELD WILL CONTAIN BID PRICE	
BID ID	CHAR(16)	VALID BID ID GENERATED BY THE IBBS	
ACTION CODE	CHAR(1)	N:- NEW,M:- MODIFY,D:-DELETE	
ENTRYDATETIME	CHAR(19)	BIDDING DATE & TIME (DD-MM-YYYY) TIME (HH:MM:SS)	
LASTMODIFIEDDATETIME	CHAR(19)	LAST MODIFICATION DATE TIME DATE (DD-MM-YYYY) TIME (HH:MM:SS)	
MARGIN	CHAR(1)	THIS FIELD SHOULD CONTAINS "1" FOR FIXED MARGIN,"2" FOR 100% UPFRONT MARGIN	
SCRIPCODE	CHAR(6)	INTERNAL ID MAINTAINED BY THE IBBS	
RTRMS STATUS	CHAR(1)	THIS FIELD CONTAINS "Y" OR "N"	
RTRMS RESPONSE CODE	CHAR(16)	RTRMS RESPONSE CODE	
RTRMS RESPONSE MSG	CHAR(150)	RTRMS RESPONSE MSG	
SESSIONID	CHAR(50)	LOGIN SESSION	
BRANCHCODE	CHAR(10)	THIS FIELD WOULD CONTAIN THE BRANCH CODE	

LOGIN ID	CHAR(15)	THIS FIELD WOULD CONTAIN LOGIN ID	
ORDERNO	CHAR(16)	VENDOR'S UNIQUE ID	
ERRORCODE	CHAR(3)	CODE INDICATING SUCCESS / FAILURE 0 – SUCCESSFUL OTHERS – FAILURE	
MESSAGE	CHAR(250)	IN CASE OF ERROR, THE SYSTEM WOULD RETURN THE ERROR MESSAGE	

9.7 ALLOTED BID REQUEST:

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF OFS MESSAGE	6021
LOGINID	CHAR(15)	THIS FIELD SHOULD CONTAIN LOGIN ID	
MEMBERCODE	CHAR(10)	THIS FIELD SHOULD CONTAIN THE MEMBER CODE.	
BRANCHCODE	CHAR(10)	BRANCH CODE	
SESSION	CHAR(50)	LOGIN SESSION	
LASTDATE	CHAR(11)	THE LAST DATE FROM WHICH THE DATA IS REQUIRED TO BE FETCHED	DD MMM YYYY FORMAT
LASTTIME	CHAR(8)	THE LAST TIME FROM WHICH THE DATA IS REQUIRED TO BE FETHCED	HH24:MI:SS FORMAT
SCRIPID	CHAR(10)	THIS FIELD SHOULD CONTAIN OFS SYMBOL OF COMPANY	

9.8 ALLOTED BID RESPONSE:

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF OFS MESSAGE	7021
SCRIPID	CHAR(10)	THIS FIELD WOULD CONTAIN OFS SYMBOL OF COMPANY	
CATEGORY	CHAR(5)	CONTAINS THE OFS CATEGORY	
CLIENT/CPCODE	CHAR(16)	THIS FIELD CONTAINS CLIENT/CPCODE.	
UCC	CHAR(11)	THIS FIELD WILL CONTAIN UCC	
CUSTODIAN CODE	CHAR(12)	THIS FIELD WILL CONTAIN CUSTODIAN CODE.	
QUANTITY	CHAR(11)	THIS FIELD WILL CONTAIN BID QUANTITY	
RATE	CHAR(7)	THIS FIELD WILL CONTAIN BID PRICE	
BID ID	CHAR(16)	VALID BID ID GENERATED BY THE IBBS	
ALLOTED QTY	CHAR(11)	THIS FIELD WILL CONTAIN ALLOCATED QUANTITY	
ALLOTED PRICE	CHAR(7)	THIS FIELD WILL CONTAIN ALLOTMENT PRICE	
MARGIN	CHAR(1)	THIS FIELD SHOULD CONTAINS "1" FOR FIXED MARGIN,"2" FOR 100% UPFRONT MARGIN	
BRANCHCODE	CHAR(10)	THIS FIELD WOULD CONTAIN THE BRANCH CODE	
LOGIN ID	CHAR(15)	THIS FIELD WOULD CONTAIN LOGIN ID	
ORDERNO	CHAR(16)	VENDOR'S UNIQUE ID	
ERRORCODE	CHAR(3)	CODE INDICATING SUCCESS / FAILURE 0 – SUCCESSFUL OTHERS – FAILURE	
MESSAGE	CHAR(250)	IN CASE OF ERROR, THE SYSTEM WOULD RETURN THE ERROR MESSAGE	

10. Multicast Message:

10.1 BSE BID DETAILS & CUMMULATIVE BID DETAILS

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF MESSAGE	9002—BSE BID DETAILS 9003—CUMMULATIVE(BSE + NSE) BID DETAILS
SYMBOL	CHAR(10)	THIS FIELD WILL CONTAIN SYMBOL OF COMPANY/IPO	
SERIES	CHAR(15)	SERIES ASSOCIATED WITH EACH CATEGORY OF DEBT IPO, FOR NORMAL EQUITY IPO SAME WILL BE BLANK.	
PRICE	CHAR(7)	THIS FIELD SHOULD CONTAIN BID PRICE	
QTY	CHAR(11)	THIS FIELD SHOULD CONTAIN BID QUANTITY.	
FLAG	CHAR(1)	THIS FIELD CONTAINS VALUE 'B' TO INDICATE BSE BID DETAILS & 'C' TO INDICATE CUMMULATIVE BID DETAILS(BSE + NSE)	
ISSUE TYPE	CHAR(15)	REFER ANNEXURE-1 FOR DETAILS	

10.2 CATEGORY DEMAND SCHEDULE

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTION CODE	CHAR(4)	TYPE OF MESSAGE	9004
SYMBOL	CHAR(10)	THIS FIELD WILL CONTAIN SYMBOL OF COMPANY/IPO	
CATEGORY	CHAR(5)	CONTAINS THE CATEGORY AS MENTIONED IN THE IPO FORM	
SUBCATEGORY	CHAR(15)		
TYPE	CHAR(1)	THIS FIELD CONTAIN VALUE EITHER 'P' (BID @ PRICE POINT) OR 'C' (BID @CUTOFF PRICE)	
QTY	CHAR(11)	THIS FIELD WILL CONTAIN BID QUANTITY.	
ISSUE TYPE	CHAR(15)	REFER ANNEXURE-1 FOR DETAILS	

11.GENERAL

1. RECORD SEPARATOR WILL BE ~#~ FOR DELTA DOWNLOAD AND OTHER REPORT DATA
2. ALL REQUESTS FOR IML SHOULD BE ENDED BY NEW LINE CHARACTER.
3. ALL RESPONSES FROM IML WOULD BE ENDED BY NEW LINE CHARACTER.



HTTP BASED COMMUNICATION API



EQUITY IPO, FPO, RIGHT ISSUE, IPP

12.Order Request/Response Description:

12.1 Add/Modify Order XSD

```

<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified">
<xs:element name="ORDERINFO">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="ORDER">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="TRANSACTIONNO" type="xs:string"/>
            <xs:element name="SYMBOL" type="xs:string"/>
            <xs:element name="APPLICATIONNO" type="xs:string"/>
            <xs:element name="CATEGORY" type="xs:string"/>
            <xs:element name="APPLICATIONNAME" type="xs:string"/>
            <xs:element name="DEPOSITORY" type="xs:string"/>
            <xs:element name="DPID" type="xs:string"/>
            <xs:element name="CLIENTBENFID" type="xs:string"/>
            <xs:element name="QUANTITY" type="xs:string"/>
            <xs:element name="RATE" type="xs:string"/>
            <xs:element name="CHEQUERCVD" type="xs:string"/>
            <xs:element name="CUTOFF" type="xs:string"/>
            <xs:element name="CHEQUEAMT" type="xs:string"/>
            <xs:element name="PANNO" type="xs:string"/>
            <xs:element name="BANKNAME" type="xs:string"/>
            <xs:element name="LOCATION" type="xs:string"/>
            <xs:element name="ACCNO" type="xs:string"/>
            <xs:element name="IFSCCODE" type="xs:string"/>
            <xs:element name="BANKREFNO" type="xs:string"/>
            <xs:element name="ORDERNO" type="xs:string"/>
            <xs:element name="BRANCHCODE" type="xs:string"/>
            <xs:element name="BIDID" type="xs:string"/>
            <xs:element name="ACTIONTIME" type="xs:string"/>
            <xs:element name="ACTIONCODE" type="xs:string"/>
            <xs:element name="ASBANONASBA" type="xs:string"/>
            <xs:element name="ERRORCODE" type="xs:string"/>
            <xs:element name="MESSAGE" type="xs:string"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
    <xs:attribute type="xs:string" name="ORDERCOUNT" use="required"/>
    <xs:attribute type="xs:string" name="PASSWORD" use="required"/>
    <xs:attribute type="xs:string" name="CHECKSUM" use="required"/>
    <xs:attribute type="xs:string" name="MEMBERCODE" use="required"/>
    <xs:attribute type="xs:string" name="LOGINID" use="required"/>
  </xs:complexType>
</xs:element>
</xs:schema>

```

12.2 Add/Modify Order Element Description:

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTIONNO	CHAR(4)	TYPE OF MESSAGE	REFER ANNEXURE III
SYMBOL	CHAR(10)	THIS FIELD WOULD CONTAIN SYMBOL OF COMPANY/IPO	
APPLICATIONNO	CHAR(16)	THIS FIELD WOULD CONTAIN APPLICATION NO OF THE IPO FORM SENT IN USER REQUEST	
CATEGORY	CHAR(5)	CONTAINS THE CATEGORY AS MENTIONED IN THE IPO FORM, 'RIC' for Right Issues	
APPLICATIONNAME	CHAR(50)	CLIENT OR APPLICANT NAME AS MENTIONED IN USER REQUEST	
DEPOSITORY	CHAR(4)	THIS FIELD WOULD CONTAIN ONLY CDSL OR NSDL MENTIONED IN USER REQUEST	
DPID	CHAR(8)	IF CDSL THEN VALUE WILL BE 0 ELSE 8 CHARACTER VALUE SHOULD BE INSERTED	
CLIENTBENFID	CHAR(16)	IF CDSL THEN VALUE SHOULD BE 16 ELSE 8 CHARACTER VALUE SHOULD BE INSERTED	
QUANTITY	CHAR(11)	THIS FIELD WOULD CONTAIN BID QUANTITY	
RATE	CHAR(7)	THIS FIELD WOULD CONTAIN BID PRICE	
CHEQUERCVD	CHAR(1)	CONTAINS Y OR N	
CUTOFF	CHAR(1)	CONTAINS 0 OR 1, "1" FOR CUT OFF ELSE MENTION 0 FOR PRICE BID. For Right Issue the value should be 0	
CHEQUEAMT	CHAR(12)	CHEQUE AMOUNT RECEIVED FROM APPLICANT	
PANNO	CHAR(10)	THIS FIELD WOULD CONTAIN PAN NO OF APPLICANT	
BANKNAME	CHAR(6)	For Banks the value will be 0 For Member-ASBA value will be RBI code For Member-Non ASBA value will be 9999 For Rights Issue the value will be 0	
LOCATION	CHAR(6)	For Banks the value will be 0. For Member-ASBA value will be LOCATION code. For Member-Non ASBA value will be NASBAL. For Rights Issue the value will be 0.	
ACCNO	CHAR(16)	THIS FIELD WOULD CONTAIN ACCOUNT NO OF THE APPLICANT	
IFSCCODE	CHAR(11)	FOR MEMBERS: NON MANDATORY FOR BANKS: CONTAINS IFSC CODE	
BANKREFNO	CHAR(16)	Optional For Bank Optional For Member Asba Mandatory For Member Non-Asba Optional For Rights Issue	
ORDERNO	CHAR(16)	VENDOR's UNIQUE ID	

BRANCHCODE	CHAR(10)	THIS FIELD WOULD CONTAIN BRANCH CODE	
BIDID	CHAR(16)	NEW GENERATED OR MODIFIED BID ID (This field value should be 0(zero) while making new bid entry request)	
ACTIONTIME	char(19)	DD-MM-YYYY HH24:MM:SS (This field value should be blank while making new bid entry/modification request)	
ACTIONCODE	CHAR(1)	N:- NEW,M:- MODIFY	
ASBANONASBA	CHAR(1)	0:- ASBA,1:-NON-ASBA,2:OTHERS(BANK USERS)	
ERRORCODE	CHAR(3)	ERROR CODE INDICATING SUCCESS / FAILURE 0 – SUCCESSFUL , OTHERS – FAILURE (This field value should be blank while making new bid entry/modification request)	
MESSAGE	CHAR(250)	SYSTEM WOULD RETURN 'SUCCESS' IN CASE OF THE REQUEST GETTING COMPLETED SUCCESSFULLY IN CASE OF ERROR, THE SYSTEM WOULD RETURN THE ERROR MESSAGE (This field value should be blank while making new bid entry/modification request)	
ORDERCOUNT		THIS FIELD CONTAINS COUNT OF ORDER,BY DEFAULT THE VALUE SHOULD BE 1 (ONE)	
PASSWORD		THIS FIELD SHOULD CONTAIN PASSWORD.	
CHECKSUM		TRANSACTION VALIDATOR	
MEMBERCODE	CHAR((10))	THIS FIELD WOULD CONTAIN THE MEMBER CODE	
LOGINID	CHAR(15)	THIS FIELD WOULD CONTAIN LOGIN ID	



12.3 Sample XML For Add/Modify Order

```
<?xml version='1.0' encoding='utf-8'?>
<ORDERINFO ORDERCOUNT='1' PASSWORD="" CHECKSUM="" MEMBERCODE="" LOGINID="">
<ORDER>
<TRANSACTIONNO></TRANSACTIONNO>
<SYMBOL></SYMBOL>
<APPLICATIONNO></APPLICATIONNO>
<CATEGORY></CATEGORY>
<APPLICATIONNAME></APPLICATIONNAME>
<DEPOSITORY></DEPOSITORY>
<DPID></DPID>
<CLIENTBENFID></CLIENTBENFID>
<QUANTITY></QUANTITY>
<RATE></RATE>
<CHEQUERCVD></CHEQUERCVD>
<CUTOFF></CUTOFF>
<CHEQUEAMT></CHEQUEAMT>
<PANNO></PANNO>
<BANKNAME></BANKNAME>
<LOCATION></LOCATION>
<ACCNO></ACCNO>
<IFSCCODE></IFSCCODE>
<BANKREFNO></BANKREFNO>
<ORDERNO></ORDERNO>
<BRANCHCODE></BRANCHCODE>
<BIDID></BIDID>
<ACTIONTIME></ACTIONTIME>
<ACTIONCODE></ACTIONCODE>
<ASBANONASBA></ASBANONASBA>
<ERRORCODE></ERRORCODE>
<MESSAGE></MESSAGE>
</ORDER>
</ORDERINFO>
```

13.Order Cancellation Request/Response:

13.1 Order Cancellation XSD

```
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified">
<xs:element name="ORDERINFO">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="ORDER">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="TRANSACTIONNO" type="xs:string"/>
            <xs:element name="SYMBOL" type="xs:string"/>
            <xs:element name="APPLICATIONNO" type="xs:string"/>
            <xs:element name="CATEGORY" type="xs:string"/>
            <xs:element name="ORDERNO" type="xs:string"/>
            <xs:element name="BRANCHCODE" type="xs:string"/>
            <xs:element name="BIDID" type="xs:string"/>
            <xs:element name="ACTIONTIME" type="xs:string"/>
            <xs:element name="ACTIONCODE" type="xs:string"/>
            <xs:element name="ERRORCODE" type="xs:string"/>
            <xs:element name="MESSAGE" type="xs:string"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:schema>
```

13.2 Order Cancellation Element Description:

FIELD DESCRIPTION	TYPE	DESCRIPTION	VALUES / MEANINGS / VALIDATIONS
TRANSACTIONNO	CHAR(4)	TYPE OF MESSAGE	REFER ANNEXURE III
SYMBOL	CHAR(10)	THIS FIELD SHOULD CONTAIN THE SYMBOL OF COMPANY/IPO	
APPLICATIONNO	CHAR(16)	THIS FIELD SHOULD CONTAIN APPLICATION NO OF THE IPO FORM.	
CATEGORY	CHAR(5)	CONTAINS THE CATEGORY AS MENTIONED IN THE IPO FORM. "RIC" For Rights Issue	
ORDERNO	CHAR(16)	VENDOR 's UNIQUE ID	
BRANCHCODE	CHAR(10)	THIS FIELD SHOULD CONTAIN THE BRANCH CODE	
BIDID	CHAR(16)	NEED TO PROVIDE BID ID	
ActionTIME	char(19)	DD-MM-YYYY HH24:MM:SS (This field value should be BLANK while making order cancellation request)	
ACTIONCODE	CHAR(1)	D:-CANCELLATION	
ERRORCODE	CHAR(3)	ERROR CODE INDICATING SUCCESS / FAILURE 0 – SUCCESSFUL , OTHERS – FAILURE (This field value should be BLANK while making order cancellation request)	
MESSAGE	CHAR(250)	SYSTEM WOULD RETURN 'SUCCESS' IN CASE OF THEREQUEST GETTING COMPLETED SUCCESSFULLY IN CASE OF ERROR, THE SYSTEM WOULD RETURN THE ERROR MESSAGE (This field value should be BLANK while making order cancellation request)	
ORDERCOUNT		THIS FIELD CONTAINS COUNT OF ORDER,BY DEFAULT THE VALUE SHOULD BE 1 (ONE)	
PASSWORD		THIS FIELD SHOULD CONTAIN PASSWORD.	
CHECKSUM		TRANSACTION VALIDATOR	
MEMBERCODE	CHAR(10)	THIS FIELD SHOULD CONTAIN THE MEMBER CODE	
LOGINID	CHAR(15)	THIS FIELD SHOULD CONTAIN LOGIN ID	



13.3 Sample XML For Order Cancellation

```
<? xml version='1.0' encoding='utf-8'?>
<ORDERINFO ORDERCOUNT='1' PASSWORD="" CHECKSUM="" MEMBERCODE ="" LOGINID =">
<ORDER>
<TRANSACTIONNO></TRANSACTIONNO>
<SYMBOL></SYMBOL>
<APPLICATIONNO></APPLICATIONNO>
<CATEGORY></CATEGORY>
<ORDERNO></ORDERNO>
<BRANCHCODE></BRANCHCODE>
<BIDID></BIDID>
<ACTIONTIME></ACTIONTIME>
<ACTIONCODE></ACTIONCODE>
<ERRORCODE></ERRORCODE>
<MESSAGE></MESSAGE>
</ORDER>
</ORDERINFO>
```

14. Encryption/Decryption:

Encryption: All request and response message is encrypted using an encryption algorithm turning it into unreadable cipher text.

Decryption: Process to convert encrypted request and response message into its original form using decryption algorithm.

Both Encryption & Decryption is done using a symmetric encryption key which will be shared by BSE.

All request and response message are encrypted & decrypted using **AES** algorithm.

15.Checksum:

A hash value is generated for all request and response parameter excluding **ORDERCOUNT** & **PASSWORD** using MD5 algorithm to verify the integrity of request and response string. If the hash value after decryption of the request and response string matches with the original hash value then transaction processing should be initiated else the transaction should not be processed further.

16. Annexure-I (Sample Code For Encryption & Decryption)

VB.net Code For Encryption:

```
Public Function Encrypt (ByVal textToEncrypt As String, ByVal key As String)
    Dim rijndaelCipher As New RijndaelManaged ()
    rijndaelCipher.Mode = CipherMode.CBC
    rijndaelCipher.Padding = PaddingMode.PKCS7
    rijndaelCipher.KeySize = &H80
    rijndaelCipher.BlockSize = &H80
    Dim pwdBytes As Byte () = Encoding.UTF8.GetBytes (key)
    Dim keyBytes As Byte () = New Byte (15) {}
    Dim len As Integer = pwdBytes. Length
    If len > keyBytes.Length Then
        len = keyBytes.Length
    End If
    Array.Copy (pwdBytes, keyBytes, len)
    rijndaelCipher.Key = keyBytes
    rijndaelCipher.IV = keyBytes
    Dim transform As ICryptoTransform = rijndaelCipher.CreateEncryptor ()
    Dim plaintext As Byte () = Encoding.UTF8.GetBytes (textToEncrypt)
    Return Convert.ToString (transform.TransformFinalBlock (plaintext, 0, plaintext. Length))
End Function
```

VB.net Code For Decryption:

```
Public Function Decrypt (ByVal textToDecrypt As String, ByVal key As String) As String
    Dim rijndaelCipher As New RijndaelManaged ()
    rijndaelCipher.Mode = CipherMode.CBC
    rijndaelCipher.Padding = PaddingMode.PKCS7

    rijndaelCipher.KeySize = &H80
    rijndaelCipher.BlockSize = &H80
    Dim encryptedData As Byte () = Convert.FromBase64String (textToDecrypt)
    Dim pwdBytes As Byte () = Encoding.UTF8.GetBytes (key)
    Dim keyBytes As Byte () = New Byte (15) {}
    Dim len As Integer = pwdBytes. Length
    If len > keyBytes.Length Then
        len = keyBytes.Length
    End If

    Array.Copy (pwdBytes, keyBytes, len)
    rijndaelCipher.Key = keyBytes
    rijndaelCipher.IV = keyBytes
    Dim plaintext As Byte () = rijndaelCipher.CreateDecryptor ().TransformFinalBlock (encryptedData, 0,
    encryptedData.Length)
    Return Encoding.UTF8.GetString (plaintext)
End Function
```

JAVA Code For Encryption:

```
String Encrypt(String text, String key)
throws Exception {
Cipher cipher = Cipher.getInstance("AES/CBC/PKCS5Padding");
byte[] keyBytes= new byte[16];
byte[] b= key.getBytes("UTF-8");
int len= b.length;
if (len > keyBytes.length) len = keyBytes.length;
System.arraycopy(b, 0, keyBytes, 0, len);
SecretKeySpec keySpec = new SecretKeySpec(keyBytes, "AES");
IvParameterSpec ivSpec = new IvParameterSpec(keyBytes);
cipher.init(Cipher.ENCRYPT_MODE,keySpec,ivSpec);

byte[] results = cipher.doFinal(text.getBytes("UTF-8"));
BASE64Encoder encoder = new BASE64Encoder();
return encoder.encode(results);
}
```

JAVA Code For Decryption:

```
String Decrypt(String text, String key) throws Exception{
Cipher cipher = Cipher.getInstance("AES/CBC/PKCS5Padding");
byte[] keyBytes= new byte[16];
byte[] b= key.getBytes("UTF-8");
int len= b.length;
if (len > keyBytes.length) len = keyBytes.length;
System.arraycopy(b, 0, keyBytes, 0, len);
SecretKeySpec keySpec = new SecretKeySpec(keyBytes, "AES");
IvParameterSpec ivSpec = new IvParameterSpec(keyBytes);
cipher.init(Cipher.DECRYPT_MODE,keySpec,ivSpec);

BASE64Decoder decoder = new BASE64Decoder();
byte [] results = cipher.doFinal(decoder.decodeBuffer(text));
return new String(results,"UTF-8");
}
```

17. Annexure-II (Sample Code For Generating Checksum)

VB.net Code For Generating Checksum:

```
Private Function generateMD5 (ByVal pstrValue As String) As String
    Dim Bytes () As Byte
    Dim lstrhash As New StringBuilder()
    If String.IsNullOrEmpty(pstrValue) Then
        Throw New ArgumentNullException
    End If
    Bytes = Encoding.Default.GetBytes (pstrValue)
    'Get md5 hash
    Bytes = MD5.Create ().ComputeHash (Bytes)
    For x As Integer = 0 To Bytes. Length - 1
        lstrhash.Append (Bytes(x).ToString ("x2"))
    Next
    Return lstrhash.ToString ()
End Function
```

JAVA Code For Generating Checksum:

```
public static byte[] createChecksum(String filename) throws Exception {  
    InputStream fis = new FileInputStream(filename);  
  
    byte[] buffer = new byte[1024];  
    MessageDigest complete = MessageDigest.getInstance("MD5");  
    int numRead;  
  
    do {  
        numRead = fis.read(buffer);  
        if (numRead > 0) {  
            complete.update(buffer, 0, numRead);  
        }  
    } while (numRead != -1);  
  
    fis.close();  
    return complete.digest();  
}  
  
public static String getMD5Checksum(String filename) throws Exception {  
    byte[] b = createChecksum(filename);  
    String result = "";  
  
    for (int i=0; i < b.length; i++) {  
        result += Integer.toHexString( ( b[i] & 0xff ) + 0x100, 16).substring( 1 );  
    }  
    return result;  
}
```

18. Annexure-III (Transaction Codes & Description)

EQUITY IPO, FPO, RIGHT ISSUE, IPP

Transaction Code	Description
6002	New Order Entry Request
6003	Order Modification Request
6004	Order Cancellation Request
7002	New Order Entry Response
7003	Order Modification Response
7004	Order Cancellation Response

19. Annexure-IV (Example)

Example Of Order Entry Request (IPO, FPO, RIGHT ISSUE, IPP)

Step:-1 Generate Checksum for the below highlighted request parameters

```

MEMBERCODE
LOGINID
TRANSACTIONNO
SYMBOL
APPLICATIONNO
CATEGORY
APPLICATIONNAME
DEPOSITORY
DPID
CLIENTBENFID
QUANTITY
RATE
CHEQUERCVD
CUTOFF
CHEQUEAMT
PANNO
BANKNAME
LOCATION
ACCCNO
IFSCCODE
BANKREFNO
ORDERNO
BRANCHCODE
BIDID
ACTIONTIME
ACTIONCODE
ASBANONASBA
ERRORCODE
MESSAGE

```

i.e. Checksum=generateMD5

(100310036002IPOIML5555555555535MFtestCDSL0111111111111180000150Y01003ASDFG1234A9999NASBAL999999999999I123999
999N1)

Checksum=76b2272d9bdcd91f15d2808ce2e28f10

```

<?xml version='1.0' encoding='utf-8'?>
<ORDERINFO ORDERCOUNT='1' PASSWORD='123456' CHECKSUM='76b2272d9bdcd91f15d2808ce2e28f10' MEMBERCODE='1003'
LOGINID='1003'>
<ORDER>
<TRANSACTIONNO>6002</TRANSACTIONNO>
<SYMBOL>IPOIML</SYMBOL>
<APPLICATIONNO>5555555555535</APPLICATIONNO>
<CATEGORY>MF</CATEGORY>
<APPLICATIONNAME>test</APPLICATIONNAME>
<DEPOSITORY>CDSL</DEPOSITORY>
<DPID>0</DPID>
<CLIENTBENFID>11111111111111</CLIENTBENFID>
<QUANTITY>80000</QUANTITY>
<RATE>150</RATE>
<CHEQUERCVD>Y</CHEQUERCVD>
<CUTOFF>0</CUTOFF>
<CHEQUEAMT>1003</CHEQUEAMT>
<PANNO>ASDFG1234A</PANNO>
<BANKNAME>9999</BANKNAME>

```

```
<LOCATION>NASBAL</LOCATION>
<ACCNO>999999</ACCNO>
<IFSCCODE></IFSCCODE>
<BANKREFNO>999999</BANKREFNO>
<ORDERNO>I123</ORDERNO>
<BRANCHCODE>999999</BRANCHCODE>
<BIDID></BIDID>
<ACTIONTIME></ACTIONTIME>
<ACTIONCODE>N</ACTIONCODE>
<ASBANONASBA>1</ASBANONASBA>
<ERRORCODE></ERRORCODE>
<MESSAGE></MESSAGE>
</ORDER>
</ORDERINFO>
```

Step:-2 Encrypt the above XML

Step:-3 Final Request String after Encryption

OReq=

hrzqlhJLpxZIMZ4MB7BIR7NQ5f09icXifbgOEaPeXN8%2b8SaZsuCyMTyUr3h3MShewKxH6vhASchieZyg4iHTyq8V38Rkq98tK9eSD377QOahlrifLUoM%2fRlwgebI9hcbfHTjk0yDq54AuDalb0ygKJ%2f9Ful6go%2bG9Z0u6InMfuqlySyygya2Ft17NWEUTKV7E6ZkByq%2b7uVBgdiKxvfES7Uh3Oc6XiVA%2bHLKmcbxazb2HeLpOEHOqA%2b3wWm1XUfp2K%2fcml0rBeTVi49DPaWQH9R92TWYVlScVWWl9m3s7oXD4S%2bkeGvcCjbnUglrQP%2fu22uJBzZT7tEnWb9UlmdHSfaecWIC5gWWW3LbldrzsSJwfWZ9CRkL9dbvbB%2fQ%2fb0hrMgi0OlnJymLxh98uN5PMvIK2L6TNVA12Yh%2bwL21sviDtwK0j%2bCSkr0%2bA5NtjgQOVL66IVHC9GsluGG2bDlqtIZug1%2fzKMjB0plji6iVvEDDoi6HWibyapjf8dnqp1pQRFbviQxjFYgMBWrSpO%2fGBs%2brO9Y4pSp16R7CGncB1DayRQXnhKK3YanT%2fWX5osFvWy%2bcyKUniPDqMah3qF06byBucl0xK0ck5FwDSpCoua6D3WzqKpbnyCCvF%2bbEhurEmpFCuD4jqoqxW5RsynRCP8BrAlb1mckHtU8AYHia6Bo32Ndb26tKRQssPAiHCL5OsJ8D8PgmL0aUDBU20Byad96i8sbwYrJdKg5tXIMACPGT5w8Akq35VxflicPhLuJ4V%2b%2fLtuVu%2f1ZLPTTS8X215neSnj5cTr8fT5Uz92aCpQt4E5E%2bgtzspUwRJXmt9URftkWi1e1hid3Hkb6z%2bcpQuYoxCA7bpJEzU8w6VnkTZnsqUTKHTnQLEu3%2b95S6V9xx47X5hYMWKXlxPZJgMCZZVum8ghf2Zwdvwbdr%2fHX8IIOWiPfRUwiesDqj0jl1Bl16XiYgJs1YSrhn3XvBQqUrxFhtLq2aPLaUDjvFToZuLdIDZgg112%2fqvEOVzElqa2z5ZujwAKN9wSVSP215DX6FoFrFDEL1gUPwqJVS7BLadc%2falSpS7P4dQ2Xnn%2fo37gLyGlFyfthQnf2qkdxLEJ3FYr7vSVLNysX4Sl6o%2b1X52t2X0BpFwyW1aDNjv3m0qDICE70DkbqvsJqvLS07Nw2m%2fnxfTtsLW1NbBmlPiVt3vDoAwEakV2BlVx6Wm8oNIVty7%2fRh1mn%2bw%3d%3d

20.REVISION HISTORY

SR. NO.	DATE	DESCRIPTION
1	MON 11 JULY 2011	BASE VERSION(VERSION 1.0)
2	TUE 03 APR 2012	BASE VERSION(VERSION 1.1)
3	FRI 04 MAY 2012	BASE VERSION(VERSION 1.2)
4	MON 16 JULY 2012	BASE VERSION(VERSION 1.3)
5	MON 01 OCT 2012	BASE VERSION(VERSION 1.4)
6	TUE 06 NOV 2012	BASE VERSION(VERSION 1.5)
7	THU 10 JAN 2013	BASE VERSION(VERSION 1.6)
8	THU 28 NOV 2013	BASE VERSION(VERSION 1.7)

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