

Protocol for WEB API

RFQ Application

Version 1.1.10



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Revision History

| Date | Change Description | Edited By | Version |
|-------------|---|------------------|----------------|
| 15-May-21 | Initial Version | | 1.0.0 |
| 21-Jun-21 | Review and implementation observations | | 1.0.1 |
| 21-Nov-22 | Changes for broker model | | 1.1.0 |
| 08-Dec-22 | Broker model final API Price / Yield calculator APIs | | 1.1.1 |
| 14-Jan-23 | <p>Introduction Chapter : Added API error handling details.</p> <p>POST /rest/v1/login : New field "brokerEnablementType" in response</p> <p>POST /rest/v1/negotiation/terminate : New field "role" in request</p> <p>POST /rest/v1/deal/propose : new field "role" in request</p> <p>POST /rest/v1/isins/all : new field "type" in response</p> <p>API Description, field description and field mandatory attributes updated for following apis</p> <p>POST rest/v1/rfqmaster/add/isin</p> <p>POST /rest/v1/rfqmaster/all/isin</p> <p>POST /rest/v1/rfqmaster/add/open</p> <p>POST /rest/v1/rfqmaster/update/open</p> <p>POST /rest/v1/negotiation/add</p> <p>POST /rest/v1/negotiation/update</p> <p>POST /rest/v1/negotiation/withdrawquote</p> <p>POST /rest/v1/negotiation/accept</p> <p>POST /rest/v1/deal/propose</p> <p>POST /rest/v1/isins/all</p> <p>Added new API GET /rest/v1/market/timings in chapter "Other API"</p> <p>Changes in authentication mechanism for the call back apis.</p> <p>Removed Appendix A on password policy</p> | | 1.1.2 |
| 09-Mar-23 | <p>Added "quoteTime" in RFQ response structure</p> <p>Added "proposedBySide" and "proposedTime" fields in Negotiation response structure.</p> <p>Altered field descriptions.</p> | | 1.1.3 |
| 25-May-23 | <p>Increased number of decimal places from 6 to 10 in all fields for 'Value in crores' in following group of APIs</p> <p>Turnover Limits Management APIs</p> <p>Portfolio Limits Management APIs</p> <p>Issue Type Settings APIs</p> <p>RFQ Management APIs</p> <p>Negotiation APIs</p> <p>Deal Confirmation APIs</p> | | 1.1.4 |
| 30-Apr-24 | Changes for handling CDMDf RFQs. | | 1.1.5 |

| | | | |
|------------|--|--|-------|
| | <p>New optional field segment added in request and response structures for RFQ. Impacted APIs are as follows</p> <p>POST /rest/v1/rfqmaster/add/isin : Request & Response</p> <p>POST /rest/v1/rfqmaster/update/isin : Response</p> <p>POST /rest/v1/rfqmaster/all/isin : Response</p> <p>POST /rest/v1/rfqmaster/marketwatch/isin : Response</p> <p>POST/rest/v1/rfqmaster/withdraw : Response</p> <p>POST /v1/notification : Request</p> <p>POST /rest/v1/deal/propose: typo error in description request of ngld</p> <p>Changes in Trade Splits. Introduced Proposer Actual Participant Code,Counter Actual Participant Code. Also change in clientCode need to pass as INST* in case of INST. Impacted APIs are as follows</p> <p>POST /rest/v1/rfqmaster/add/isin</p> <p>POST /rest/v1/rfqmaster/add/open</p> <p>POST /rest/v1/negotiation/add</p> | | |
| 04-Sept-24 | <p>Currently the Client registration type field is enumerated as follows</p> <p>I = Institution Client</p> <p>R = Retail Client</p> <p>Following will be the new enumeration for it</p> <p>I = Institution - Regulated</p> <p>R = Retail - Unregistered</p> <p>U = Institution - Unregulated</p> <p>Following APIs will have impact due to this</p> <ol style="list-style-type: none"> 1 POST /rest/v1/rfqmaster/add/isin : Response 2 POST /rest/v1/rfqmaster/update/isin : Response 3 POST /rest/v1/rfqmaster/all/isin : Request & Response 4 POST /rest/v1/rfqmaster/marketwatch/isin : Response 5 POST /rest/v1/rfqmaster/add/open : Response 6 POST /rest/v1/rfqmaster/update/open : Response 7 POST /rest/v1/rfqmaster/all/open : Response 8 POST /rest/v1/rfqmaster/marketwatch/open : Response | | 1.1.6 |

| | | | |
|-------------|--|--|--------|
| | <p>9 POST/rest/v1/rfqmaster/withdraw: Response</p> <p>10 POST /rest/v1/negotiation/add: Response</p> <p>11 POST /rest/v1/negotiation/update: Response</p> <p>12 POST /rest/v1/negotiation/withdrawquote: Response</p> <p>13 POST /rest/v1/negotiation/terminate: Response</p> <p>14 POST /rest/v1/negotiation/accept: Response</p> <p>15 POST /rest/v1/negotiation/all: Response</p> <p>16 POST /rest/v1/deal/propose: Response</p> <p>17 POST /rest/v1/deal/acceptreject: Response</p> <p>18 POST /rest/v1/deal/tradesplit: Response</p> <p>19 POST /rest/v1/deal/changeclient: Response</p> <p>Callback API POST /v1/notification: Request</p> <p>New API “POST /rest/v1/debar/all” to fetch list of debarred clients of broker.</p> <p>More fields (filters) in request JSON for API “POST /rest/v1/negotiation/all” API.</p> | | |
| 22-Nov-24 | New API “POST /rest/v1/debar/all” to fetch list of debarred clients of broker. | | 1.1.7 |
| 04-Mar-25 | Endpoint path updated Before: - /v1/partisstype/all Change: - /v1/partisstyp/all | | 1.1.7 |
| 23-April-25 | Made Addition of SOVEREIGN to Appendix A - Code List | | 1.1.8 |
| 11-May-25 | Trade modification and cancellation APIs. New Chapter “Deal Amendment API” added. New field “dealAmendList” added in Request JSON of callback API “POST /v1/notification” | | 1.1.9 |
| 16-Mar-26 | Added new field “proposedBySide” in Request JSON of Deal Amendment API “POST /rest/v1/dealamend/modifycancel” to specify amendment initiating side. Mandatory if buyer broker and seller broker are the same. Possible values: BuyerClient (“B”), SellerClient (“S”). | | 1.1.10 |

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Introduction

This document describes the Web API's to programmatically access and exchange data with RFQ Platform(HOST system).

The document outlines the messaging protocols and structures for developing such interface.

General Instructions

1. Following headers need to be provided in all API calls
 - **Content-Type:** This header should be provided in all requests with method as "POST". Header value should be "application/json".
 - **loginKey:** This header should be provided in all requests except API "POST /rest/v1/login". Header value should be the token value received in successful login response (see below).
2. Path parameters and query parameters in the URL's must be encoded using percent encoding. (Refer http://www.w3schools.com/tags/ref_urlencode.asp for details)
3. All request and response messages are in JSON (Javascript Object Notation) format. (Refer <http://www.json.org/> for details).
4. Some of the key specifications related to JSON and standards followed for the API's are as follows
 - JSON is built on 2 structures. Map containing key value pairs and an ordered list of values.
 - A value could be boolean (true / false), number, decimal, String or a structure (List or Object).
 - Object or key value pair structure consists of keys which are strings and values of any of the above types. E.g. {"name": "Amit", "age": 25}
 - List contains list of values. E.g. ["Amit", "Ajay", "Vikas"]
 - A Boolean has only 2 values true or false.
 - String values are enclosed in single quote or double quotes. e.g. "name", "Amit", "Pending"
 - Numbers and decimals are represented without any thousand - separator character. Decimal indicator is dot (".")
 - Numbers have an optional maximum number of digits. If not specified then it is defaulted to 18.
 - Decimals have 2 mandatory length parameters. The first length parameter indicates number of digits in the whole part (before decimal place) and the second length parameter indicates number of digits in the decimal part (after decimal place).
 - All dates, times and datetimes are represented as strings and in Indian standard time. Dates are formatted using format "dd-MMM-yyyy" (E.g. 01-Jan-2018). Time are formatted as "hh24:mm:ss". Date times are formatted as "dd-MMM-yyyy hh24:mm:ss" (E.g. 01-Jan-2016 15:30:00).
5. All URLs for API will be always in lower case.
6. All JSON field names will follow camel-hump style of naming. A field with multiple words would be concatenated without spaces. All characters will be in lower case. First characters of words other than the first word in the field name will be in upper case. For e.g. field for "Order Number" could be represented by field name "orderNumber". Other examples are "firstName", "lastName".

7. In case of JSONs representing an object or a key-value pair, keys with null values could be omitted from the JSON.

Common Error Response

All API's can throw errors in the form of a common error response JSON along with HTTP status code. HTTP Status codes are as follows

| Status Code | Description |
|-------------|--|
| 400 | Indicates a validation / business logic error |
| 401 | Indicates that the login session is not established or has expired. In case 2 sessions are created using same login credentials, then the old session will be expired. Also if a session is inactive for a predefined amount of time then the session will be expired. |
| 404 | Resource does not exist |
| 500 | Any other application error. Such errors are to be reported to the support desk. |

Common Error Response JSON

| Field | Type | Description |
|----------|--------|---|
| code | Number | Http Status Code. See above |
| messages | Array | In case of errors pertaining to parsing of input JSONs, each element of the array will be a structure (see "Field Error Structure" below) In case of errors pertaining to rule validation failures, each element of the array will be a "String" (maximum length 100) depicting the error. |

Field Error Structure

| Field | Type | Description |
|-------|-------------|---------------------------------|
| field | String(100) | Input JSON field name. |
| msg | String(100) | Field validation error message. |

In almost all APIs 2 levels of validations are performed. In first level the input JSON message is validated for structure. Every field is validated for datatype, length and any other constraints specified for that field. Typically all field level validation errors are accumulated and given in a single response containing field wise errors using the "Field Error Structure".

In the 2nd level of validation for the APIs various functional rules are verified and error is thrown immediately upon violation of the functional rule. Typically these errors are not progressive i.e. the API skips further validation and processing immediately after occurrence of first validation failure.

Sample Response

```
{
  "code": 400,
  "messages": ["Access Denied"]
}
{
  "code": 400,
```

```
"messages": [  
  {  
    "msg": "Participants: No of items in the list should be  
greater than or equal to 1",  
    "field": "participantList"  
  }  
]
```

Environment Details

Base URL for all APIs will be as follows

Testing Environment: <https://briconlinereguat.nseindia.com/rfq/>

Live Environment: <https://briconline.nseindia.com/rfq>

Enabling API

To access the APIs, create an API enabled user in CBRICS system. Refer WEB_CBRICS_PROTOCOL_XXX.pdf for details.

Participants may optionally implement [call back APIs](#) for receiving RFQ notifications. Participants are required to provide a call back base URL to the exchange. The base URL can be different from one provided for CBRICS callbacks.

Common API

POST /rest/v1/login

This API authenticates the user and creates a session for the user in the Host System. The session is identified by an alphanumeric login key in the response.

| | |
|-----------------|---|
| Method | POST |
| Url | <baseurl>/rest/v1/login |
| Request | JSON |
| Response | JSON |

Request JSON

| Field | Type | Mandatory | Description |
|----------|------------|-----------|-------------------------|
| domain | String(10) | Yes | Participant/Entity Code |
| login | String(10) | Yes | Login Id |
| password | String(20) | Yes | Password. |

Sample Request

```
{
  "domain": "PART1",
  "login": "PART1",
  "password": "a#12G34h4r5t"
}
```

Response JSON

| Field | Type | Mandatory | Description |
|------------|-------------|-------------|--|
| domain | String(10) | Yes | Participant Code. Value same as in input field "domain" |
| login | String(10) | Yes | Login Id. Same as input |
| status | String(1) | Yes | S = Success F=Failed. Only reason field will be appended in the response P=Password expired. Only reason field will be appended in the response. Password can be changed using CBRICS APIs or using CBRICS portal. |
| reason | String(100) | No | Login fail reason. FAIL Reasons : <ul style="list-style-type: none"> Invalid Login Id/Password. User has been disabled due to incorrect password attempts. User has been disabled. |
| loginKey | String(50) | Conditional | Login Key. This key is to be set in "loginKey" header for all subsequent requests. |
| firstName | String(50) | Conditional | User first name |
| middleName | String(50) | Conditional | User middle name |
| lastName | String(50) | Conditional | User last name |
| lastLogin | Number | No | Last login date time (expressed as millis since epoch time i.e. 01-jan-1970) |
| serverTime | Number | Conditional | Server time at the time of login. (expressed as millis since epoch time i.e. 01-jan-1970) |
| broker | Boolean | Conditional | True – If participant is a broker False – If participant is not a broker |

| | | | |
|----------------------|-----------|-------------|--|
| brokerEnablementType | String(1) | Conditional | Valid only if broker=true R = RFQ Broker O = OBPP Broker |
|----------------------|-----------|-------------|--|

Sample Response – Login Success

```
{
  "status": "S",
  "reason": null,
  "loginKey": "122f2f48a91c94808a93",
  "domain": "PART1",
  "login": "PART1",
  "firstName": "Amit",
  "middleName": null,
  "lastName": null,
  "lastLogin": 1525773311206,
  "serverTime": 1461918333567,
  "broker": true,
  "brokerEnablementType": "O"
}
```

Sample Response – Login Failed

```
{
  "domain": "PART1",
  "login": "PART1",
  "status": "F",
  "reason": "Invalid Login Id/Password"
}
```

Sample Response – Password Expired

```
{
  "domain": "PART1",
  "login": "PART1",
  "status": "P",
  "reason": "Change Password"
}
```

GET /rest/v1/logout

This API closes the current session in the HOST system

| | |
|-----------------|--|
| Method | GET |
| Url | <baseurl>/rest/v1/logout |
| Request | NONE |
| Response | JSON |

Response JSON

| Field | Type | Mandatory | Description |
|--------|-----------|-----------|-------------|
| status | String(1) | Yes | C = Closed |

Sample Response

```
{
  "status": "C"
}
```

Participant Group Management API

POST /rest/v1/partgrp/add

This API allows creation of new participant group .

| | |
|-----------------|---|
| Method | POST |
| Url | <baseurl>/rest/v1/partgrp/add |
| Request | JSON |
| Response | JSON |

Request JSON

Map containing following fields

| Field | Type | Mandatory | Description |
|-----------------|------------------|-----------|---|
| name | String(100) | Yes | Participant group name |
| participantList | List<String(30)> | Yes | List of constituent participant codes. Minimum 1 |

Sample Request

```
{
  "name": "Mutual Funds",
  "participantList": [
    "MF001",
    "MF002"
  ]
}
```

Response JSON

Map containing following fields in addition to all fields in Request JSON

| Field | Type | Mandatory | Description |
|-------|--------|-----------|---|
| id | Number | Yes | Unique system generated id for participant group. |

Sample Success Response

```
{
  "id": "1256",
  "name": "Mutual Funds",
  "participantList": [
    "MF001",
    "MF002"
  ]
}
```

POST /rest/v1/partgrp/update

This API allows modifying participant group. API allows changing name of existing group. API also allows adding and removal of participants from constituent participant list

| | |
|-----------------|--|
| Method | POST |
| Url | <baseurl>/rest/v1/partgrp/update |
| Request | JSON |
| Response | JSON |

Request JSON

Map. Structure same as [Response JSON](#) in POST /rest/v1/partgrp/add

Response JSON

Map. Structure same as [Response JSON](#) in POST /rest/v1/partgrp/add

POST /rest/v1/partgrp/all

This API returns a list of all participant groups created by logged in users participant.

| | |
|-----------------|-------------------------------|
| Method | POST |
| Url | <baseurl>/rest/v1/partgrp/all |
| Request | JSON |
| Response | JSON |

Request JSON

Map containing following fields. Fields are optional and are used to filter response data.

| Field | Type | Mandatory | Description |
|-------|-------------|-----------|---|
| id | Number | No | Filter to fetch a record corresponding to the id. |
| name | String(100) | No | Filter to fetch participant groups whose name contains the given value. Matching of text is case insensitive. |

Sample Request

```
{
  "name": "Mutual"
}
```

Sample Request

```
{
  "id": 1256
}
```

Sample Request

```
{
}
```

Response JSON

List of Map. Each Map represents a participant group. Structure of Map same as [Response JSON](#) in POST /rest/v1/partgrp/add

Sample Success Response

```
[
  {
    "id": "1256",
    "name": "Mutual Funds",
    "participantList": [
      "MF001",
      "MF002"
    ]
  },
  {
    "id": "1276",
    "name": "HNIs",
    "participantList": [
      "PART001",
      "PART002"
    ]
  }
]
```

```
]
  }
]
```

Turnover Limits Management API

POST /rest/v1/partlimit/add

This API allows creation of new limit record .

| | |
|-----------------|---------------------------------|
| Method | POST |
| Url | <baseurl>/rest/v1/partlimit/add |
| Request | JSON |
| Response | JSON |

Request JSON

Map containing following fields

| Field | Type | Mandator y | Description |
|----------------------|----------------|-----------------|--|
| limitType | String(1) | Yes | Filter for limit type S = Self (limit to be applied on self) D = Dealer (limit to be applied on a particular user) C = Counter Party (limit on counter party) B = Broker (limit on a particular broker bidding on behalf of the participant). Valid if the participant is not broker. X = Client (limit on a particular client of the logged in broker. Valid if the participant is a broker. |
| global | String(1) | No | Flag to indicate if the limit record is global i.e. default for all counter parties or dealers (based on limittype) Y = Global null = Not global |
| counterPartyCode | String(30) | Condition al | Counter party code. Valid only if global is null. Mandatory only if limit type = Counter Party |
| loginId | String(30) | Condition al | Dealer login id. Valid only if global is null. Mandatory only if limit type = Dealer |
| brokerCode | String(30) | Condition al | Broker Code. Valid only if global is null. Mandatory only if limit type = Broker |
| clientCode | String(30) | Condition al | Client Code. Valid only if global is null. Mandatory only if limit type = Client |
| settlementType | String(1) | No | Settlement type for which the limit is defined 0 = T + 0 1 = T + 1 null = Across all settlement types |
| dayBuyLimitInfinity | String(1) | No | Flag to indicate buy limit is unlimited. Y = Unlimited null = Limited |
| dayBuyLimit | Decimal(10,10) | No | Day Buy Limit in crores. Valid only if dayBuyLimit = Limited (null) |
| daySellLimitInfinity | String(1) | No | Flag to indicate Sell limit is unlimited. |

| | | | |
|-----------------------|----------------|----|---|
| | | | Y = Unlimited null = Limited |
| daySellLimit | Decimal(10,10) | No | Day Sell Limit in crores. Valid only if dayBuyLimit = Limited (null) |
| dayGrossLimitInfinity | String(1) | No | Flag to indicate Gross limit is unlimited. Y = Unlimited null = Limited |
| dayGrossLimit | Decimal(10,10) | No | Day Gross Limit in crores. Valid only if dayBuyLimit = Limited (null) |

Sample Request

```
{
  "limitType" : "S",
  "global" : null,
  "counterPartyCode" : null,
  "loginId" : null,
  "brokerCode" : null,
  "clientCode" : null,
  "settlementType" : 0,
  "dayBuyLimitInfinity" : "Y",
  "dayBuyLimit" : null,
  "daySellLimitInfinity" : null,
  "daySellLimit" : 100,
  "dayGrossLimitInfinity" : null,
  "dayGrossLimit" : null
}
```

Response JSON

Map containing following fields in addition to all fields in Request JSON

| Field | Type | Mandator y | Description |
|------------------|----------------|---------------|--|
| id | Number | Yes | Unique system generated id for limit record. |
| buyUtilization | Decimal(10,10) | No | Day buy limit utilization in crores. |
| sellUtilization | Decimal(10,10) | No | Day sell limit utilization in crores. |
| grossUtilization | Decimal(10,10) | No | Day gross limit utilization in crores. |

Sample Success Response

```
{
  "id" : 101,
  "limitType" : "S",
  "global" : null,
  "counterPartyCode" : null,
  "loginId" : null,
  "brokerCode" : null,
  "clientCode" : null,
  "settlementType" : 0,
  "dayBuyLimitInfinity" : "Y",
  "dayBuyLimit" : null,
  "daySellLimitInfinity" : null,
  "daySellLimit" : 100,
  "dayGrossLimitInfinity" : null,
  "dayGrossLimit" : null,
  "buyUtilization" : 0,
  "sellUtilization" : 14.55,
  "grossUtilization" : 14.55
}
```

POST /rest/v1/partlimit/update

This API allows modifying limit.

| | |
|-----------------|--|
| Method | POST |
| Url | <baseurl>/rest/v1/partlimit/update |
| Request | JSON |
| Response | JSON |

Request JSON

Map containing following fields

| Field | Type | Mandatory | Description |
|-----------------------|----------------|-----------|---|
| id | Number | Yes | Unique system generated id for limit record. |
| limitType | String(1) | Yes | Filter for limit type S = Self D = Dealer C = Counter Party |
| dayBuyLimitInfinity | String(1) | No | Flag to indicate buy limit is unlimited. Y = Unlimited null = Limited |
| dayBuyLimit | Decimal(10,10) | No | Day Buy Limit in crores. Valid only if dayBuyLimit = Limited (null) |
| daySellLimitInfinity | String(1) | No | Flag to indicate Sell limit is unlimited. Y = Unlimited null = Limited |
| daySellLimit | Decimal(10,10) | No | Day Sell Limit in crores. Valid only if dayBuyLimit = Limited (null) |
| dayGrossLimitInfinity | String(1) | No | Flag to indicate Gross limit is unlimited. Y = Unlimited null = Limited |
| dayGrossLimit | Decimal(10,10) | No | Day Gross Limit in crores. Valid only if dayBuyLimit = Limited (null) |

Response JSON

Map. Structure same as [Response JSON](#) in POST /rest/v1/partlimit/add

POST /rest/v1/partlimit/all

This API returns a list of all limit records created by logged in users participant.

| | |
|-----------------|---|
| Method | POST |
| Url | <baseurl>/rest/v1/partlimit/all |
| Request | JSON |
| Response | JSON |

Request JSON

Map containing following fields. Fields are optional and are used to filter response data.

| Field | Type | Mandatory | Description |
|-----------|-----------|-----------|--|
| id | Number | No | Filter to fetch record identified by id. |
| limitType | String(1) | No | Filter for limit type S = Self |

| | | | |
|------------------|------------|----|---|
| | | | D = Dealer C = Counter Party B = Broker X = Client |
| counterPartyCode | String(30) | No | Filter for counter party code. |
| loginId | String(30) | No | Filter for dealer login id. |
| brokerCode | String(30) | No | Filter for broker code. |
| clientCode | String(30) | No | Filter for client code. |

Sample Request

```
{
  "limitType": "D",
  "loginId": "USER001s"
}
```

Sample Request

```
{
  "id": 101
}
```

Response JSON

List of Map. Each Map represents a limit record. Structure of Map same as [Response JSON](#) in POST /rest/v1/partlimit/add

Sample Success Response

```
[
  {
    "id" : 101,
    "limitType" : "S",
    "global" : null,
    "counterPartyCode" : null,
    "loginId" : null,
    "brokerCode" : null,
    "clientCode" : null,
    "settlementType" : 0,
    "dayBuyLimitInfinity" : "Y",
    "dayBuyLimit" : null,
    "daySellLimitInfinity" : null,
    "daySellLimit" : 100,
    "dayGrossLimitInfinity" : null,
    "dayGrossLimit" : null,
    "buyUtilization" : 0,
    "sellUtilization" : 14.55,
    "grossUtilization" : 14.55
  },
  {
    "id" : 102,
    "limitType" : "C",
    "global" : null,
    "counterPartyCode" : "MF001",
    "loginId" : null,
    "brokerCode" : null,
    "clientCode" : null,
    "settlementType" : null,
    "dayBuyLimitInfinity" : "Y",
    "dayBuyLimit" : null,
    "daySellLimitInfinity" : null,
  }
]
```

```
    "daySellLimit" : 100,  
    "dayGrossLimitInfinity" : null,  
    "dayGrossLimit" : null,  
    "buyUtilization" : 0,  
    "sellUtilization" : 4.55,  
    "grossUtilization" : 4.55  
  },  
  {  
    "id" : 103,  
    "limitType" : "D",  
    "global" : "Y",  
    "counterPartyCode" : null,  
    "loginId" : "USER001",  
    "brokerCode" : null,  
    "clientCode" : null,  
    "settlementType" : 0,  
    "dayBuyLimitInfinity" : "Y",  
    "dayBuyLimit" : null,  
    "daySellLimitInfinity" : null,  
    "daySellLimit" : 100,  
    "dayGrossLimitInfinity" : null,  
    "dayGrossLimit" : null,  
    "buyUtilization" : 0,  
    "sellUtilization" : 24.55,  
    "grossUtilization" : 24.55  
  }  
]
```

Portfolio Limits Management API

POST /rest/v1/limit/add

This API allows creation of new portfolio limit record .

| | |
|-----------------|---|
| Method | POST |
| Url | <baseurl>/rest/v1/limit/add |
| Request | JSON |
| Response | JSON |

Request JSON

Map containing following fields

| Field | Type | Mandatory | Description |
|--------------------------|----------------|-------------|--|
| limitType | String(1) | Yes | Filter for limit type S = Isin I = Issuer |
| global | String(1) | No | Flag to indicate if the limit record is global i.e. default for all isins or issuers (based on limittype) Y = Global null = Not global |
| isin | String(12) | Conditional | ISIN. Valid only if global is null. Mandatory only if limit type = Isin |
| issuer | String(100) | Conditional | Issuer Name. Valid only if global is null. Mandatory only if limit type = Issuer |
| valueType | String(1) | No | Type of limit Q = Quantity V = Value |
| dayBuyLimitInfinity | String(1) | No | Valid only if valueType = Quantity Flag to indicate buy quantity limit is unlimited. Y = Unlimited null = Limited |
| dayBuyLimit | Number | No | Valid only if valueType = Quantity and dayBuyLimitInfinity = Limited (null) Day Buy Quantity Limit. |
| dayBuyValueLimitInfinity | String(1) | No | Valid only if valueType = Value Flag to indicate buy Value limit is unlimited. Y = Unlimited null = Limited |
| dayBuyValueLimit | Decimal(10,10) | No | Valid only if valueType = Value and dayBuyValueLimitInfinity= Limited (null) Day Buy Value Limit in crores. |
| daySellLimitInfinity | String(1) | No | Valid only if valueType = Quantity Flag to indicate Sell quantity limit is unlimited. Y = Unlimited null = Limited |

| | | | |
|---------------------------|----------------|----|---|
| daySellLimit | Number | No | Valid only if valueType = Quantity and daySellLimitInfinity = Limited (null) Day Sell Quantity Limit. |
| daySellValueLimitInfinity | String(1) | No | Valid only if valueType = Value Flag to indicate Sell Value limit is unlimited. Y = Unlimited null = Limited |
| daySellValueLimit | Decimal(10,10) | No | Valid only if valueType = Value and daySellValueLimitInfinity = Limited (null) Day Sell Quantity Limit in crores. |
| basePrice | Decimal(3,4) | No | Valid only for limitType=Isin Base price to be used for determining price band using issue limit type settings (see below) |
| baseYield | Decimal(3,4) | No | Valid only for limitType=Isin Base yield to be used for determining price band using issue limit type settings (see below) |

Sample Request

```
{
  "limitType" : "S",
  "global" : null,
  "isin" : "INE123456789",
  "issuer" : null,
  "valueType" : "Q",
  "dayBuyLimitInfinity" : "Y",
  "dayBuyLimit" : null,
  "dayBuyValueLimitInfinity" : null,
  "dayBuyValueLimit" : null,
  "daySellLimitInfinity" : null,
  "daySellLimit" : 0,
  "daySellValueLimitInfinity" : null,
  "daySellValueLimit" : null,
  "basePrice" : 102.1250,
  "baseYield" : 5.6655
}
```

Response JSON

Map containing following fields in addition to all fields in Request JSON

| Field | Type | Mandato ry | Description |
|----------------------|----------------|---------------|--|
| id | Number | Yes | Unique system generated id for limit record. |
| buyUtilization | Number | No | Day buy quantity limit utilization. |
| sellUtilization | Number | No | Day sell quantity limit utilization. |
| buyValueUtilization | Decimal(10,10) | No | Day buy value limit utilization in crores. |
| sellValueUtilization | Decimal(10,10) | No | Day sell value limit utilization in crores. |

Sample Success Response

```
{
  "id" : 301,
}
```

```

"limitType" : "S",
"global" : null,
"isin" : "INE123456789",
"issuer" : null,
"valueType" : "Q",
"dayBuyLimitInfinity" : "Y",
"dayBuyLimit" : null,
"dayBuyValueLimitInfinity" : null,
"dayBuyValueLimit" : null,
"daySellLimitInfinity" : null,
"daySellLimit" : 0,
"daySellValueLimitInfinity" : null,
"daySellValueLimit" : null,
"basePrice" : 102.1250,
"baseYield" : 5.6655,
"buyUtilization" : 0,
"buyValueUtilization" : 0.00,
"sellUtilization" : 0,
"sellValueUtilization" : 0.00
}

```

POST /rest/v1/portfoliolimit/update

This API allows modifying limit.

| | |
|-----------------|---|
| Method | POST |
| Url | <baseurl>/rest/v1/portfoliolimit/update |
| Request | JSON |
| Response | JSON |

Request JSON

Map containing following fields

| Field | Type | Mandator y | Description |
|--------------------------|-----------|---------------|--|
| limitType | String(1) | Yes | Filter for limit type S = Isin I = Issuer |
| global | String(1) | No | Flag to indicate if the limit record is global i.e. default for all isins or issuers (based on limittype) Y = Global null = Not global |
| valueType | String(1) | No | Type of limit Q = Quantity V = Value |
| dayBuyLimitInfinity | String(1) | No | Valid only if valueType = Quantity Flag to indicate buy quantity limit is unlimited. Y = Unlimited null = Limited |
| dayBuyLimit | Number | No | Valid only if valueType = Quantity and dayBuyLimitInfinity = Limited (null) Day Buy Quantity Limit. |
| dayBuyValueLimitInfinity | String(1) | No | Valid only if valueType = Value Flag to indicate buy Value limit is unlimited. |

| | | | |
|---------------------------|----------------|----|---|
| | | | Y = Unlimited null = Limited |
| dayBuyValueLimit | Decimal(10,10) | No | Valid only if valueType = Value and dayBuyValueLimitInfinity= Limited (null) Day Buy Value Limit in crores. |
| daySellLimitInfinity | String(1) | No | Valid only if valueType = Quantity Flag to indicate Sell quantity limit is unlimited. Y = Unlimited null = Limited |
| daySellLimit | Number | No | Valid only if valueType = Quantity and daySellLimitInfinity = Limited (null) Day Sell Quantity Limit. |
| daySellValueLimitInfinity | String(1) | No | Valid only if valueType = Value Flag to indicate Sell Value limit is unlimited. Y = Unlimited null = Limited |
| daySellValueLimit | Decimal(10,10) | No | Valid only if valueType = Value and daySellValueLimitInfinity = Limited (null) Day Sell Quantity Limit in crores. |
| basePrice | Decimal(3,4) | No | Valid only for limitType=Isin Base price to be used for determining price band using issue limit type settings (see below) |
| baseYield | Decimal(3,4) | No | Valid only for limitType=Isin Base yield to be used for determining price band using issue limit type settings (see below) |

Response JSON

Map. Structure same as [Response JSON](#) in POST /rest/v1/portfoliolimit/add

POST /rest/v1/portfoliolimit/all

This API returns a list of all portfolio limit records created by logged in users participant.

| | |
|-----------------|--|
| Method | POST |
| Url | <baseurl>/rest/v1/portfoliolimit/all |
| Request | JSON |
| Response | JSON |

Request JSON

Map containing following fields. Fields are optional and are used to filter response data.

| Field | Type | Mandatory | Description |
|-----------|-------------|-----------|---|
| id | Number | No | Filter to fetch record identified by id. |
| limitType | String(1) | No | Filter for limit type S = ISIN I = Issuer |
| isin | String(12) | No | Filter for ISIN. |
| issuer | String(100) | No | Filter for issuer. |

Sample Request

```
{
  "limitType": "S",
  "isin": "INE123456789"
}
```

Sample Request

```
{
  "id": 201
}
```

Response JSON

List of Map. Each Map represents a limit record. Structure same as [Response JSON](#) in POST /rest/v1/limit/add

Sample Success Response

```
[
  {
    "id" : 301,
    "limitType" : "S",
    "global" : null,
    "isin" : "INE123456789",
    "issuer" : null,
    "valueType" : "Q",
    "dayBuyLimitInfinity" : "Y",
    "dayBuyLimit" : null,
    "dayBuyValueLimitInfinity" : null,
    "dayBuyValueLimit" : null,
    "daySellLimitInfinity" : null,
    "daySellLimit" : 0,
    "daySellValueLimitInfinity" : null,
    "daySellValueLimit" : null,
    "basePrice" : 102.1250,
    "baseYield" : 5.6655,
    "buyUtilization" : 0,
    "buyValueUtilization" : 0.00,
    "sellUtilization" : 0,
    "sellValueUtilization" : 0.00
  },
  {
    "id" : 302,
    "limitType" : "I",
    "global" : "Y",
    "isin" : null,
    "issuer" : null,
    "valueType" : "V",
    "dayBuyLimitInfinity" : null,
    "dayBuyLimit" : null,
    "dayBuyValueLimitInfinity" : null,
    "dayBuyValueLimit" : null,
    "daySellLimitInfinity" : null,
    "daySellLimit" : null,
    "daySellValueLimitInfinity" : null,
    "daySellValueLimit" : 1000,
    "basePrice" : null,
    "baseYield" : null,
    "buyUtilization" : 0,
    "buyValueUtilization" : 0.00,

```

```
        "sellUtilization" : 0,  
        "sellValueUtilization" : 0.00  
    }  
]
```

Issue Type Settings API

POST /rest/v1/partisstyp/update

This API allows updation of issue type wise settings

| | |
|-----------------|--|
| Method | POST |
| Url | <baseurl>/rest/v1/partisstyp/add |
| Request | JSON |
| Response | JSON |

Request JSON

Map containing following fields.

| Field | Type | Mandator y | Description |
|--------------------------------|----------------|---------------|--|
| issueCategory | String(10) | Yes | Issue Category CP CD CB = Bonds SD GS = Gsec / Tbill / SL |
| maxSingleTransactionValueLimit | Decimal(10,10) | Yes | Maximum Single Transaction Value Limit in crores. |
| maxStvViolationAction | String(1) | Yes | Action to be taken upon single transaction value limit breach W = Warn B = Block |
| yieldBandType | String(1) | Yes | Yield Band Type D = Delta Absolute P = Delta Percentage |
| yieldLowerBand | Decimal(3,4) | No | Yield Lower Band |
| yieldUpperBand | Decimal(3,4) | No | Yield Upper Band |
| yieldViolationAction | String(1) | Yes | Action to be taken upon yield band breach W = Warn B = Block |
| priceBandType | String(1) | Yes | Yield Band Type D = Delta Absolute P = Delta Percentage |
| priceLowerBand | Decimal(3,4) | No | Yield Lower Band |
| priceUpperBand | Decimal(3,4) | No | Yield Upper Band |
| priceViolationAction | String(1) | Yes | Action to be taken upon yield band breach W = Warn B = Block |

Sample Request

```
{
  "issueCategory" : "CB",
  "maxSingleTransactionValueLimit" : 50.0,
  "maxStvViolationAction" : "W",
  "yieldBandType" : "D",
  "yieldLowerBand" : 0.05,
  "yieldUpperBand" : 0.05,
```

```

    "yieldViolationAction" : "B",
    "priceBandType" : "D",
    "priceLowerBand" : null,
    "priceUpperBand" : null,
    "priceViolationAction" : "B"
  }

```

Response JSON

Map. Structure same Request Json.

GET /rest/v1/partisstyp/all

This API returns a list of issue type wise settings for the participant corresponding to logged in user.

| | |
|-----------------|--|
| Method | GET |
| Url | <baseurl>/rest/v1/partisstyp/all |
| Response | JSON |

Response JSON

List of Map. Each Map represents a limit record. Structure same as [Request JSON](#) in POST /rest/v1/partisstyp/update

Sample Success Response

```

[
  {
    "issueCategory" : "CB",
    "maxSingleTransactionValueLimit" : 50.0,
    "maxStvViolationAction" : "W",
    "yieldBandType" : "D",
    "yieldLowerBand" : 0.05,
    "yieldUpperBand" : 0.05,
    "yieldViolationAction" : "B",
    "priceBandType" : "D",
    "priceLowerBand" : null,
    "priceUpperBand" : null,
    "priceViolationAction" : "B"
  },
  {
    "issueCategory" : "CP",
    "maxSingleTransactionValueLimit" : 10.0,
    "maxStvViolationAction" : "W",
    "yieldBandType" : "D",
    "yieldLowerBand" : 0.05,
    "yieldUpperBand" : 0.05,
    "yieldViolationAction" : "B",
    "priceBandType" : "P",
    "priceLowerBand" : 1.25,
    "priceUpperBand" : 1.25,
    "priceViolationAction" : "B"
  }
]

```

RFQ Management API

POST /rest/v1/rfqmaster/add/isin

This API allows creation of new RFQ for a specific ISIN.

| | |
|-----------------|--------------------------------------|
| Method | POST |
| Url | <baseurl>/rest/v1/rfqmaster/add/isin |
| Request | JSON |
| Response | JSON |

Request JSON

Map containing following fields

| Field | Type | Mandator y | Description |
|-----------------|----------------|---------------|---|
| segment | String(1) | No | Segment R = Normal RFQ (Default if not provided) C = CDMDRF RFQ |
| isin | String(12) | Yes | ISIN |
| participantCode | String(30) | Yes | Always logged in user's participant code |
| dealType | String(1) | Yes | Deal Type D = Direct B = Brokered |
| clientCode | String(30) | Yes | Client code of the RFQ initiator. Should be same as participantCode in case of participants For brokers if dealType is direct then it should be same as the participantCode. If dealType is brokered then it should code of registered (institutional) participant or un registered (retail) participant. If dealType is brokered then clientCode value need to pass as INST* incase if the broker needs to proceed for INST and split the RFQ later (Deal Split provsion for multiple clientwise). |
| buySell | String(1) | Yes | B = Buy S = Sell X = Both |
| quoteType | String(1) | Yes | Y = Only Yield B = Both Price and Yield |
| settlementType | Number | Yes | 0 = T+0 1 = T+1 |
| value | Decimal(10,10) | Yes | RFQ Value in crores In case of buySell = Both, represents Buy RFQ Value |
| quantity | Number | No | RFQ Number of bonds In case of buySell = Both, represents Buy RFQ Quantity. |

| | | | |
|-----------------|----------------|-------------|--|
| | | | If not provided system computes quantity using value and issue face value. |
| yieldType | String(3) | Yes | YTM / YTP / YTC In case of buySell = Both, represents Buy RFQ Yield type |
| yield | Decimal(3,4) | Yes | Yield In case of buySell = Both, represents Buy RFQ Yield |
| calcMethod | String(1) | Yes | Yield / Price calculation method M = Money Market O = Other In case of buySell = Both, represents Buy RFQ Calculation method |
| price | Decimal(3,4) | Conditional | Price In case of buySell = Both, represents Buy Price. Valid and Mandatory only if quoteType is "Both Price and Yield" |
| valueSell | Decimal(10,10) | Conditional | Sell RFQ Value in crores Valid and mandatory only if buySell = Both |
| quantitySell | Number | Conditional | Sell RFQ Number of bonds Valid only if buySell = Both If not provided system computes quantity using value and issue face value. |
| yieldTypeSell | String(3) | Conditional | Sell RFQ : YTM / YTP / YTC Valid and mandatory only if buySell = Both |
| yieldSell | Decimal(3,4) | Conditional | Sell RFQ Yield Valid and mandatory only if buySell = Both |
| calcMethodSell | String(1) | Conditional | Sell RFQ Yield / Price calculation method M = Money Market O = Other Valid and mandatory only if buySell = Both |
| priceSell | Decimal(3,4) | Conditional | Sell RFQ Price Valid only if buySell = Both Mandatory only if quoteType is "Both Price and Yield" |
| gtdFlag | String(1) | No | Flag to indicate RFQ is valid till end of trading hours. Y = Valid till day Null = valid till "endTime" |
| endTime | Time | Conditional | RFQ Expiry time Valid and Mandatory if gtdFlag = null Format : HH24:MM |
| quoteNegotiable | String(1) | No | Flag to indicate that RFQ quote is negotiable Y = Negotiable |

| | | | |
|-----------------|------------------|-----|--|
| | | | Null = Not negotiable |
| valueNegotiable | String(1) | No | Flag to indicate that RFQ value is negotiable Y = Negotiable Null = Not negotiable |
| minFillValue | Decimal(10,10) | No | Minimum quote value in crores Valid only if valueNegotiable = "Y" |
| valueStepSize | Decimal(10,10) | No | Quote value step size Valid only if valueNegotiable = "Y" |
| anonymous | String(1) | No | Flag to indicate that RFQ is anonymous Y = Anonymous Null = Not anonymous |
| access | Number | Yes | RFQ Access 1 = OTM (One to many) 2 = OTO (One to One) 3 = IST (Inter scheme transfer) |
| groupList | List<Number> | No | List of participant groups. See "Participant Group Management API" Valid only if access = "OTO" |
| participantList | List<String(30)> | No | List of participants. Valid only if access = "OTO" |
| category | String(30) | No | Sector Refer Appendix B for list of sectors |
| rating | String(10) | No | Rating Refer Appendix B for list of ratings |
| remarks | String(100) | No | Remarks |

Sample Request

```
{
  "segment" : "R",
  "isin" : "INE020B08BH6",
  "participantCode" : "{{domain}}",
  "clientCode" : "BARCLAYS",
  "buySell" : "B",
  "quoteType" : "Y",
  "settlementType" : 1,
  "value" : 10,
  "quantity" : 100,
  "yieldType" : "YTM",
  "yield" : 4.67,
  "calcMethod" : "M",
  "price" : null,
  "valueSell" : null,
  "quantitySell" : null,
  "yieldTypeSell" : null,
  "yieldSell" : null,
  "calcMethodSell" : null,
  "priceSell" : null,
  "gtdFlag" : "Y",
  "endTime" : "20:45",
  "quoteNegotiable" : "Y",
  "valueNegotiable" : "Y",
  "minFillValue" : 1.00,
  "valueStepSize" : 1.00,
  "dealType" : "B",
  "anonymous" : null,
  "access" : 2,
```

```

"groupList" : null,
"participantList" : ["INDBANK"],
"category" : "NBFC",
"rating" : "AA",
"remarks" : "Test remarks"
}

```

Response JSON

Array of Maps containing following fields in addition to fields in Request JSON. In case of RFQs with buySell = Both, the response array will contain 2 elements, representing the buy and sell RFQs. In case of RFQs with buySell = either Buy or Sell, the response array will contain only 1 element.

| Field | Type | Mandator y | Description |
|-----------------|------------------|-----------------|---|
| number | String(15) | Yes | Unique system generated RFQ Number |
| segment | String(1) | Yes | Segment R = Normal RFQ C = CDMDF RFQ |
| isin | String(12) | Yes | Same as input |
| participantCode | String(30) | Yes | Same as input |
| dealType | String(1) | Yes | Same as input |
| clientCode | String(30) | Yes | Same as input |
| clientRegType | String(1) | Yes | R = Retail – Unregistered (<i>CBRICS Unregistered participant introduced by a broker</i>) I = Institution - Regulated U = Institution – Unregulated |
| buySell | String(1) | Yes | B = Buy S = Sell |
| quoteType | String(1) | Yes | Same as input |
| settlementType | Number | Yes | Same as input |
| value | Decimal(10,10) | Yes | Same as input |
| quantity | Number | Yes | Same as input |
| yieldType | String(3) | Yes | Same as input |
| yield | Decimal(3,4) | Yes | Same as input |
| calcMethod | String(1) | Yes | Same as input |
| price | Decimal(3,4) | Conditiona l | Same as input |
| gtdFlag | String(1) | No | Same as input |
| endTime | Time | Yes | Same as input or market end time |
| quoteNegotiable | String(1) | No | Same as input |
| valueNegotiable | String(1) | No | Same as input |
| minFillValue | Decimal(10,10) | No | Same as input |
| valueStepSize | Decimal(10,10) | No | Same as input |
| anonymous | String(1) | No | Same as input |
| access | Number | No | Same as input |
| groupList | List<Number> | No | Same as input |
| participantList | List<String(30)> | No | Same as input |
| category | String(30) | No | Same as input |
| rating | String(10) | No | Same as input |
| remarks | String(100) | No | Same as input |
| date | Date | Yes | RFQ Date. Current Business Date. |

| | | | |
|----------------|----------------|-----|--|
| quoteTime | Time | Yes | RFQ Initiation Time. |
| settlementDate | Date | Yes | Settlement Date corresponding to settlementType |
| status | String(1) | Yes | P = Pending W = Withdrawn T = Fully Traded |
| userLogin | String(30) | Yes | Login Id of the user who created the RFQ |
| tradedValue | Decimal(10,10) | Yes | Total trade value in crores where yield is confirmed |
| confirmedValue | Decimal(10,10) | Yes | Total trade value in crores where consideration is confirmed |

Sample Success Response

```
[
  {
    "segment": "R",
    "date": "09-Dec-2022",
    "quoteTime": "10:20:23",
    "access": "2",
    "rating": "AA",
    "quoteType": "Y",
    "tradedValue": 0,
    "participantList": [
      "INDBANK"
    ],
    "calcMethod": "M",
    "number": "R22120900000018",
    "gtdFlag": "Y",
    "price": null,
    "yield": 4.67,
    "yieldType": "YTM",
    "minFillValue": 1.00,
    "participantCode": "DFHI",
    "value": 10,
    "settlementType": 1,
    "buySell": "B",
    "clientRegType": "I",
    "quantity": 100,
    "groupList": null,
    "settlementDate": "10-Dec-2022",
    "dealType": "B",
    "valueNegotiable": "Y",
    "userLogin": "NSHARMA",
    "clientCode": "BARCLAYS",
    "confirmedValue": 0,
    "anonymous": null,
    "endTime": "23:50",
    "category": "NBFC",
    "isin": "INE020B08BH6",
    "quoteNegotiable": "Y",
    "valueStepSize": 1.00,
    "remarks": "Test remarks",
    "status": "P"
  }
]
```

POST /rest/v1/rfqmaster/update/isin

This API allows modifying a specific ISIN RFQ

| | |
|-----------------|---|
| Method | POST |
| Url | <baseurl>/rest/v1/rfqmaster/update/isin |
| Request | JSON |
| Response | JSON |

Request JSON

Map containing following fields.

| Field | Type | Mandatory | Description |
|-----------------|----------------|-------------|---|
| number | String(15) | Yes | Unique system generated RFQ Number |
| settlementType | Number | Yes | 0 = T+0 1 = T+1 |
| value | Decimal(10,10) | Yes | RFQ Value in crores |
| quantity | Number | No | RFQ Number of bonds If not provided system computes quantity using value and issue face value. |
| yieldType | String(3) | Yes | YTM / YTP / YTC |
| yield | Decimal(3,4) | Yes | Yield |
| calcMethod | String(1) | Yes | Yield / Price calculation method M = Money Market O = Other In case of quoteType = Both, represents Buy RFQ Calculation method |
| price | Decimal(3,4) | Conditional | Price Mandatory only if quoteType is "Only Price" or "Both Price and Yield" |
| gtdFlag | String(1) | No | Flag to indicate RFQ is valid till end of trading hours. Y = Valid till day Null = valid till "endTime" |
| endTime | Time | Conditional | RFQ Expiry time Mandatory if gtdFlag = null Format : HH24:MM |
| quoteNegotiable | String(1) | No | Flag to indicate that RFQ quote is negotiable Y = Negotiable Null = Not negotiable |
| valueNegotiable | String(1) | No | Flag to indicate that RFQ value is negotiable Y = Negotiable Null = Not negotiable |
| minFillValue | Decimal(10,10) | No | Minimum quote value in crores Valid only if valueNegotiable = "Y" |
| valueStepSize | Decimal(10,10) | No | Quote value step size in crores Valid only if valueNegotiable = "Y" |
| anonymous | String(1) | No | Flag to indicate that RFQ is anonymous Y = Anonymous Null = Not anonymous |
| access | Number | No | RFQ Access 1 = OTM (One to many) 2 = OTO (One to One) |

| | | | |
|-----------------|------------------|----|--|
| | | | 3 = IST (Inter scheme transfer) |
| groupList | List<Number> | No | List of participant categories. See “Participant Group Management API” Valid only if access = “OTO” |
| participantList | List<String(30)> | No | List of participant groups Valid only if access = “OTO” |
| category | String(30) | No | Sector Refer Appendix B for list of sectors |
| rating | String(10) | No | Rating Refer Appendix B for list of ratings |
| remarks | String(100) | No | Remarks |

Sample Request

```
{
  "number": "R22120900000018",
  "settlementType": 1,
  "value": 20,
  "quantity": 200,
  "yieldType": "YTM",
  "yield": 4.67,
  "calcMethod": "M",
  "price": null,
  "gtdFlag": "Y",
  "endTime": "23:50",
  "quoteNegotiable": "Y",
  "valueNegotiable": "Y",
  "minFillValue": 1.00,
  "valueStepSize": 1.00,
  "anonymous": null,
  "access": "2",
  "category": "NBFC",
  "rating": "AA",
  "remarks": "Test remarks",
  "groupList": null,
  "participantList": [
    "INDBANK"
  ]
}
```

Response JSON

Map. Structure same as [Response JSON](#) in POST /rest/v1/rfqmaster/add/isin

POST /rest/v1/rfqmaster/all/isin

This API allows fetching list of specific ISIN RFQs created by the logged in participant or its broker for given input filter condition.

| | |
|-----------------|---|
| Method | POST |
| Url | <baseurl> /rest/v1/rfqmaster/all/isin |
| Request | JSON |
| Response | JSON |

Request JSON

Map containing following fields. Fields are optional and are used to filter response data.

| Field | Type | Mandatory | Description |
|-------|------|-----------|-------------|
|-------|------|-----------|-------------|

| | | | |
|-----------------|------------|----|---|
| number | String(15) | No | Filter to fetch RFQ master record identified by number. |
| date | Date | No | RFQ Date. Default is current date. Format : dd-MMM-yyyy |
| isin | String(12) | No | Filter for ISIN |
| participantCode | String(30) | No | Filter for initiator participant code |
| clientRegType | String(1) | No | Filter for Client type R = Retail – Unregistered (<i>CBRICS Unregistered participant introduced by a broker</i>) I = Institution - Regulated U = Institution – Unregulated |
| status | String(1) | No | Filter for status of RFQ P = Pending W = Withdrawn T = Fully Traded |

Sample Request

```
{
  "date": "06-May-2022"
}
```

Sample Request

```
{
  "number": "R21020400000002"
}
```

Response JSON

List of Map. Each Map represents a RFQ record. Structure of Map same as [Response JSON](#) in POST /rest/v1/rfqmaster/add/isin

```
[
  {
    "segment": "R",
    "date": "09-Dec-2022",
    "quoteTime": "10:21:23",
    "access": "1",
    "rating": null,
    "quoteType": "Y",
    "tradedValue": 0.000000,
    "participantList": null,
    "calcMethod": "O",
    "number": "R22120900000014",
    "gtdFlag": "Y",
    "price": null,
    "yield": 5.0000,
    "yieldType": "YTM",
    "minFillValue": null,
    "participantCode": "DFHI",
    "value": 10.000000,
    "settlementType": 0,
    "buySell": "B",
    "clientRegType": "I",
    "quantity": 100,
    "groupList": null,
    "settlementDate": "09-Dec-2022",
    "dealType": "D",
  }
]
```

```

    "valueNegotiable": "Y",
    "userLogin": "DFHI",
    "clientCode": "DFHI",
    "confirmedValue": 0.000000,
    "anonymous": null,
    "endTime": "22:00",
    "category": null,
    "isin": "INE020B08BH6",
    "quoteNegotiable": "Y",
    "valueStepSize": null,
    "remarks": null,
    "status": "P"
  },
  {
    "date": "09-Dec-2022",
    "quoteTime": "11:01:09",
    "access": "2",
    "rating": "AA",
    "quoteType": "Y",
    "tradedValue": 0.000000,
    "participantList": [
      "INDBANK"
    ],
    "calcMethod": "M",
    "number": "R22120900000015",
    "gtdFlag": "Y",
    "price": null,
    "yield": 4.6700,
    "yieldType": "YTM",
    "minFillValue": 1.000000,
    "participantCode": "DFHI",
    "value": 10.000000,
    "settlementType": 1,
    "buySell": "B",
    "clientRegType": "I",
    "quantity": 100,
    "groupList": [],
    "settlementDate": "10-Dec-2022",
    "dealType": "B",
    "valueNegotiable": "Y",
    "userLogin": "NSHARMA",
    "clientCode": "BARCLAYS",
    "confirmedValue": 0.000000,
    "anonymous": null,
    "endTime": "23:50",
    "category": "NBFC",
    "isin": "INE020B08BH6",
    "quoteNegotiable": "Y",
    "valueStepSize": 1.000000,
    "remarks": "Test remarks",
    "status": "P"
  }
]

```

POST /rest/v1/rfqmaster/marketwatch/isin

This API allows fetching specific ISIN RFQs visible to the market for today.

| | |
|----------------|--|
| Method | POST |
| Url | <baseurl>/rest/v1/rfqmaster/marketwatch/isin |
| Request | JSON |

| | |
|-----------------|------|
| Response | JSON |
|-----------------|------|

Request JSON

Map containing following fields. Fields are optional and are used to filter response data.

| Field | Type | Mandatory | Description |
|-----------------|------------|-----------|---|
| number | String(15) | No | Filter to fetch RFQ master record identified by number. |
| isin | String(12) | No | Filter for ISIN |
| participantCode | String(30) | No | Filter for initiator participant code |
| status | String(1) | No | P = Pending W = Withdrawn T = Fully Traded |
| buySell | String(1) | No | B = Buy S = Sell |

Sample Request

```
{
  "number": "R21020400000002"
}
```

Response JSON

List of Map. Each Map represents a RFQ record. Structure of Map same as [Response JSON](#) in POST /rest/v1/rfqmaster/add/isin. Fields “participantList” and “groupList” will be excluded from the response.

Sample Response

```
[
  {
    "segment" : "R",
    "number" : "R21020400000002",
    "date" : "15-May-2021",
    "quoteTime": "10:21:23",
    "isin" : "INE123456789",
    "buySell" : "B",
    "quoteType" : "B",
    "settlementType" : 1,
    "settlementDate" : "16-May-2021",
    "value" : 10.50,
    "quantity" : 105,
    "yieldType" : "YTM",
    "yield" : 5.67,
    "calcMethod" : "M",
    "price" : 103.33,
    "gtdFlag" : null,
    "endTime" : "15:45",
    "quoteNegotiable" : "Y",
    "valueNegotiable" : "Y",
    "minFillValue" : 1.00,
    "valueStepSize" : 0.5,
    "dealType" : "D",
    "anonymous" : "Y",
    "access" : 2,
    "category" : "NBFC",
    "rating" : "AA",
    "remarks" : "Test remarks",
  }
]
```

```

    "status" : "P",
    "clientCode" : "PART001",
    "participantCode" : "PART001",
    "tradedValue" : 0,
    "confirmedValue" : 0
  }
]

```

POST /rest/v1/rfqmaster/add/open

This API allows creation of new Open RFQ .

| | |
|-----------------|---|
| Method | POST |
| Url | <baseurl> /rest/v1/rfqmaster/add/open |
| Request | JSON |
| Response | JSON |

Request JSON

Map containing following fields

| Field | Type | Mandatory | Description |
|-----------------|------------------|-------------|---|
| scriptDesc | String(200) | Yes | Open RFQ description |
| openIsinList | List<String(12)> | No | List of ISINs eligible for open RFQ. Maximum allowed 50. |
| participantCode | String(30) | Yes | Always logged in user's participant code |
| dealType | String(1) | Yes | Deal Type D = Direct B = Brokered |
| clientCode | String(30) | Yes | Participant code of the RFQ initiator. Should be same as participantCode in case of participants For brokers if dealType is direct then it should be same as the participantCode. If dealType is brokered then it should code of registered (institutional) participant or un registered (retail) participant. If dealType is brokered then clientCode value need to pass as INST* incase if the broker needs to proceed for INST and split the RFQ later (Deal Split provision for multiple clientwise). |
| buySell | String(1) | Yes | B = Buy S = Sell X = Both |
| quoteType | String(1) | Yes | Y = Only Yield B = Both Price and Yield |
| value | Decimal(10,10) | Yes | RFQ Value in crores In case of buySell = Both, represents Buy RFQ Value |
| valueSell | Decimal(10,10) | Conditional | Sell RFQ Value in crores Valid and mandatory only if buySell = Both |

| | | | |
|-----------------|------------------|--------------|--|
| gtdFlag | String(1) | No | Flag to indicate RFQ is valid till end of trading hours. Y = Valid till day Null = valid till “endTime” |
| endTime | Time | Condition al | RFQ Expiry time Valid and mandatory if gtdFlag = null Format : HH24:MM |
| minFillValue | Decimal(10,10) | No | Minimum quote value in crores |
| valueStepSize | Decimal(10,10) | No | Quote value step size in crores |
| anonymous | String(1) | No | Flag to indicate that RFQ is anonymous Y = Anonymous Null = Not anonymous |
| access | Number | Yes | RFQ Access 1 = OTM (One to many) 2 = OTO (One to One) 3 = IST (Inter scheme transfer) |
| groupList | List<Number> | No | List of participant categories. See “Participant Group Management API” Valid only if access = “OTO” |
| participantList | List<String(30)> | No | List of participant groups Valid only if access = “OTO” |
| category | String(30) | No | Sector Refer Appendix B for list of sectors |
| rating | String(10) | No | Rating Refer Appendix B for list of ratings |
| remarks | String(100) | No | Remarks |

Sample Request

```
{
  "scriptDesc" : "AAA+ Sovereign bonds",
  "participantCode" : "PART001s",
  "clientCode" : "PART001s",
  "openIsinList": ["INE123456789","INE123456799"],
  "buySell" : "B",
  "quoteType" : "B",
  "value" : 10.50,
  "valueSell" : null,
  "gtdFlag" : "Y",
  "endTime" : null,
  "minFillValue" : null,
  "valueStepSize" : null,
  "dealType" : "D",
  "anonymous" : "Y",
  "access" : 2,
  "groupList" : ["3"],
  "participantList" : ["PART001"],
  "category" : "NBFC",
  "rating" : "AA",
  "remarks" : "Test remarks"
}
```

Response JSON

Map containing following fields.

| Field | Type | Mandator y | Description |
|-------|------|------------|-------------|
|-------|------|------------|-------------|

| | | | |
|-----------------|------------------|-------------|---|
| scriptDesc | String(200) | Yes | Same as input |
| openIsinList | List<String(12)> | No | Same as input |
| participantCode | String(30) | Yes | Same as input |
| dealType | String(1) | Yes | Same as input |
| clientCode | String(30) | Yes | Same as input |
| clientRegType | String(1) | Yes | R = Retail – Unregistered (<i>CBRICS Unregistered participant introduced by a broker</i>) I = Institution - Regulated U = Institution – Unregulated |
| buySell | String(1) | Yes | B = Buy S = Sell |
| quoteType | String(1) | Yes | Same as input |
| value | Decimal(10,10) | Yes | Same as input |
| gtdFlag | String(1) | No | Same as input |
| endTime | Time | Conditional | Same as input |
| minFillValue | Decimal(10,10) | No | Same as input |
| valueStepSize | Decimal(10,10) | No | Same as input |
| anonymous | String(1) | No | Same as input |
| access | Number | No | Same as input |
| groupList | List<Number> | No | Same as input |
| participantList | List<String(30)> | No | Same as input |
| category | String(30) | No | Same as input |
| rating | String(10) | No | Same as input |
| remarks | String(100) | No | Same as input |
| number | String(15) | Yes | Unique system generated RFQ Number |
| date | Date | Yes | RFQ Date. Current Business Date. |
| quoteTime | Time | Yes | RFQ Initiation Time. |
| status | String(1) | Yes | P = Pending W = Withdrawn T = Fully Traded |
| userLogin | String(30) | Yes | Login Id of the user who created the RFQ |
| tradedValue | Decimal(10,10) | Yes | Total trade value in crores where yield is confirmed |
| confirmedValue | Decimal(10,10) | Yes | Total trade value in crores where consideration is confirmed |

Sample Success Response

```
{
  "number" : "R21020400000003",
  "date" : "15-May-2021",
  "quoteTime" : "12:45",
  "scriptDesc" : "AAA+ Sovereign bonds",
  "openIsinList": ["INE123456789", "INE123456799"],
  "buySell" : "B",
  "quoteType" : "B",
  "value" : 10.50,
  "gtdFlag" : "Y",
```

```

"endTime" : null,
"minFillValue" : null,
"valueStepSize" : null,
"dealType" : "D",
"anonymous" : "Y",
"access" : 2,
"groupList" : ["3"],
"participantList" : ["PART001"],
"category" : "NBFC",
"rating" : "AA",
"remarks" : "Test remarks",
"status" : "P",
"clientCode" : "PART001",
"participantCode" : "PART001",
"userLogin" : "USER0091",
"tradedValue" : 0,
"confirmedValue" : 0
}

```

POST /rest/v1/rfqmaster/update/open

This API allows modifying an open RFQ

| | |
|-----------------|---|
| Method | POST |
| Url | <baseurl>/rest/v1/rfqmaster/update/open |
| Request | JSON |
| Response | JSON |

Request JSON

Map containing following fields.

| Field | Type | Mandatory | Description |
|---------------|------------------|-------------|---|
| number | String(15) | Yes | Unique system generated RFQ Number |
| scriptDesc | String(200) | Yes | Open RFQ description |
| openIsinList | List<String(12)> | No | List of ISINs eligible for open RFQ |
| value | Decimal(10,10) | Yes | RFQ Value in crores In case of quoteType = Both, represents Buy RFQ Value |
| gtdFlag | String(1) | No | Flag to indicate RFQ is valid till end of trading hours. Y = Valid till day Null = valid till "endTime" |
| endTime | Time | Conditional | RFQ Expiry time Mandatory if gtdFlag = null Format : HH24:MM |
| minFillValue | Decimal(10,10) | No | Minimum quote value in crores Valid only if valueNegotiable = "Y" |
| valueStepSize | Decimal(10,10) | No | Quote value step size in crores Valid only if valueNegotiable = "Y" |
| anonymous | String(1) | No | Flag to indicate that RFQ is anonymous Y = Anonymous Null = Not anonymous |
| access | Number | No | RFQ Access 1 = OTM (One to many) 2 = OTO (One to One) |

| | | | |
|-----------------|------------------|----|--|
| | | | 3 = IST (Inter scheme transfer) |
| groupList | List<Number> | No | List of participant categories. See " Participant Group Management API " Valid only if access = "OTO" |
| participantList | List<String(30)> | No | List of participant groups Valid only if access = "OTO" |
| category | String(30) | No | Sector Refer Appendix B for list of sectors |
| rating | String(10) | No | Rating Refer Appendix B for list of ratings |
| remarks | String(100) | No | Remarks |

Response JSON

Map. Structure same as [Response JSON](#) in POST /rest/v1/rfqmaster/add/open

POST /rest/v1/rfqmaster/all/open

This API allows fetching open RFQs

| | |
|-----------------|--|
| Method | POST |
| Url | <baseurl>/rest/v1/rfqmaster/all/open |
| Request | JSON |
| Response | JSON |

Request JSON

Map containing following fields. Fields are optional and are used to filter response data.

| Field | Type | Mandatory | Description |
|-----------------|------------|-----------|--|
| number | String(15) | No | Filter to fetch RFQ master record identified by number. |
| date | Date | No | RFQ Date. Default is current date. Format : dd-MMM-yyyy |
| participantCode | String(30) | No | Filter for initiator participant code |

Sample Request

```
{
  "date": "06-May-2021"
}
```

Sample Request

```
{
  "number": "R21020400000003"
}
```

Response JSON

List of Map. Each Map represents a RFQ record.

```
[
  {
    "number" : "R21020400000003",
    "scriptDesc" : "AAA+ Sovereign bonds",
    "openIsinList": ["INE123456789", "INE123456799"],
    "buySell" : "B",
    "quoteType" : "B",
    "value" : 10.50,
  }
]
```

```

    "valueSell" : null,
    "gtdFlag" : "Y",
    "endTime" : null,
    "minFillValue" : null,
    "valueStepSize" : null,
    "dealType" : "D",
    "anonymous" : "Y",
    "access" : 2,
    "groupList" : ["3"],
    "participantList" : ["PART001"],
    "category" : "NBFC",
    "rating" : "AA",
    "remarks" : "Test remarks",
    "status" : "P",
    "clientCode" : "PART001",
    "participantCode" : "PART001",
    "userLogin" : "USER0091",
    "tradedValue" : 0,
    "confirmedValue" : 0
  }
]

```

POST /rest/v1/rfqmaster/marketwatch/open

This API allows fetching Open RFQs visible to the market for today.

| | |
|-----------------|--|
| Method | POST |
| Url | <baseurl>/rest/v1/rfqmaster/marketwatch/open |
| Request | JSON |
| Response | JSON |

Request JSON

Map containing following fields. Fields are optional and are used to filter response data.

| Field | Type | Mandatory | Description |
|-----------------|------------|-----------|---|
| number | String(15) | No | Filter to fetch RFQ master record identified by number. |
| participantCode | String(30) | No | Filter for initiator participant code |
| status | String(1) | No | P = Pending W = Withdrawn T = Fully Traded |

Sample Request

```

{
  "number": "R21020400000003"
}

```

Response JSON

List of Map. Each Map represents a RFQ record.

| Field | Type | Mandator y | Description |
|--------------|----------------------|---------------|---------------|
| scriptDesc | String(200) | Yes | Same as input |
| openIsinList | List<String(12) > | No | Same as input |
| clientCode | String(30) | Yes | Same as input |

| | | | |
|-----------------|----------------|-----------------|--|
| participantCode | String(30) | Yes | Same as input |
| buySell | String(1) | Yes | B = Buy S = Sell |
| quoteType | String(1) | Yes | Same as input |
| value | Decimal(10,10) | Yes | Same as input |
| valueSell | Decimal(10,10) | Yes | Same as input |
| gtdFlag | String(1) | No | Same as input |
| endTime | Time | Condition al | Same as input |
| minFillValue | Decimal(10,10) | No | Same as input |
| valueStepSize | Decimal(10,10) | No | Same as input |
| dealType | String(1) | Yes | Same as input |
| anonymous | String(1) | No | Same as input |
| access | Number | No | Same as input |
| category | String(30) | No | Same as input |
| rating | String(10) | No | Same as input |
| remarks | String(100) | No | Same as input |
| number | String(15) | Yes | Unique system generated RFQ Number |
| date | Date | Yes | RFQ Date. Current Business Date. |
| status | String(1) | Yes | P = Pending W = Withdrawn T = Fully Traded |
| tradedValue | Decimal(10,10) | Yes | Total trade value in crores where yield is confirmed |
| confirmedValue | Decimal(10,10) | Yes | Total trade value in crores where consideration is confirmed |

Sample Response

```
[
  {
    "number" : "R21020400000003",
    "scriptDesc" : "AAA+ Sovereign bonds",
    "openIsinList": ["INE123456789","INE123456799"],
    "buySell" : "B",
    "quoteType" : "B",
    "value" : 10.50,
    "valueSell" : null,
    "gtdFlag" : "Y",
    "endTime" : null,
    "minFillValue" : null,
    "valueStepSize" : null,
    "dealType" : "D",
    "anonymous" : "Y",
    "access" : 2,
    "category" : "NBFC",
    "rating" : "AA",
    "remarks" : "Test remarks",
    "status" : "P",
    "clientCode" : "PART001",
    "participantCode" : "PART001",
    "tradedValue" : 0,
    "confirmedValue" : 0
  }
]
```

POST/rest/v1/rfqmaster/withdraw

This API withdraws one or more RFQs of type ISIN as well as Open

| | |
|-----------------|--|
| Method | POST |
| Url | <baseurl>/rest/v1/rfqmaster/withdraw |
| Request | JSON |
| Response | JSON |

Request JSON

List of Map. Each Map represents an RFQ and contains following fields

| Field | Type | Mandatory | Description |
|--------|------------|-----------|----------------------------|
| number | String(15) | Yes | RFQ Number to be withdrawn |

Sample Request

```
[
  {
    "number": "R21020400000002"
  },
  {
    "number": "R21020400000003"
  }
]
```

Response JSON

List of Map. Each Map represents a RFQ record. Structure of Map same as [Response JSON](#) in POST /rest/v1/rfqmaster/add/isin

```
[
  {
    "segment": "R",
    "number": "R21020400000002",
    "isin": "INE123456789",
    "buySell": "B",
    "quoteType": "B",
    "settlementType": 1,
    "value": 10.50,
    "quantity": 105,
    "yieldType": "YTM",
    "yield": 5.67,
    "calcMethod": "M",
    "price": 103.33,
    "valueSell": null,
    "quantitySell": null,
    "yieldTypeSell": null,
    "yieldSell": null,
    "calcMethodSell": null,
    "priceSell": null,
    "gtdFlag": null,
    "endTime": "15:45",
    "quoteNegotiable": "Y",
    "valueNegotiable": "Y",
    "minFillValue": 1.00,
    "valueStepSize": 0.5,
    "dealType": "D",
    "anonymous": "Y",
    "access": 2,
    "groupList": ["3"],
  }
]
```

```
    "participantList" : ["PART001"],
    "category" : "NBFC",
    "rating" : "AA",
    "remarks" : "Test remarks",
    "status" : "W",
    "clientCode" : "PART001",
    "participantCode" : "PART001",
    "userLogin" : "USER0091",
    "tradedValue" : 0,
    "confirmedValue" : 0
  },
  {
    "number" : "R21020400000003",
    "scriptDesc" : "AAA+ Sovereign bonds",
    "openIsinList": ["INE123456789","INE123456799"],
    "buySell" : "B",
    "quoteType" : "B",
    "value" : 10.50,
    "valueSell" : null,
    "gtdFlag" : "Y",
    "endTime" : null,
    "minFillValue" : null,
    "valueStepSize" : null,
    "dealType" : "D",
    "anonymous" : "Y",
    "access" : 2,
    "groupList" : ["3"],
    "participantList" : ["PART001"],
    "category" : "NBFC",
    "rating" : "AA",
    "remarks" : "Test remarks",
    "status" : "W",
    "clientCode" : "PART001",
    "participantCode" : "PART001",
    "userLogin" : "USER0091",
    "tradedValue" : 0,
    "confirmedValue" : 0
  }
]
```

Negotiation API

POST /rest/v1/negotiation/add

This API allows creation of a new negotiation thread as responder of RFQ

| | |
|-----------------|-----------------------------------|
| Method | POST |
| Url | <baseurl>/rest/v1/negotiation/add |
| Request | JSON |
| Response | JSON |

Request JSON

Map containing following fields

| Field | Type | Mandator y | Description |
|----------------|----------------|-----------------|---|
| ngRfqNumber | String(15) | Yes | RFQ Number |
| isin | String(12) | Conditiona l | ISIN Mandatory if RFQ is of type Open |
| aeCode | String(30) | Yes | Always logged in user's participant code |
| dealType | String(1) | Yes | D = Direct B = Brokered |
| clientCode | String(30) | Yes | Responder client code. Should be same as aeCode in case of participants For brokers if dealType is direct then it should be same as the aeCode. If dealType is brokered then it should code of registered (institutional) participant or un registered (retail) participant. If dealType is brokered then clientCode value need to pass as INST* incase if the broker needs to proceed for INST and split the RFQ later (Deal Split provsion for multiple clientwise). |
| buySell | String(1) | No | Buy/Sell with respect to responder. (Opposite of RFQ Buy/Sell) B = Buy S = Sell |
| settlementType | Number | Yes | 0 = T+0 1 = T+1 |
| value | Decimal(10,10) | Yes | Quote Value in crores |
| quantity | Number | No | Quote Number of bonds If not provided system computes quantity using value and issue face value. |
| yieldType | String(3) | Yes | YTM / YTP / YTC |
| yield | Decimal(3,4) | Yes | Yield |
| calcMethod | String(1) | Yes | Yield / Price calculation method M = Money Market O = Other |

| | | | |
|---------|--------------|-----------------|--|
| price | Decimal(3,4) | Conditiona l | Price Valid and Mandatory only if RFQ quoteType is "Both Price and Yield" |
| gtdFlag | String(1) | No | Flag to indicate Negotiation is valid till end of trading hours. Y = Valid till day Null = valid till "endTime" |
| endTime | Time | Conditiona l | Quote Expiry time Mandatory if gtdFlag = null Format : HH24:MM |
| remarks | String(100) | No | Remarks |

Sample Request

```
{
  "ngRfqNumber": "R22120900000021",
  "isin": "INE020B08BH6",
  "aeCode": "DFHI",
  "dealType": "D",
  "clientCode": "DFHI",
  "buySell": "S",
  "settlementType": 0,
  "value": 1,
  "quantity": 10,
  "yieldType": "YTM",
  "yield": 4.6550,
  "calcMethod": "M",
  "price": 103.1250,
  "gtdFlag": "Y",
  "endTime": null,
  "remarks": null
}
```

Response JSON

Map containing following fields

| Field | Type | Mandator y | Description |
|--------------------|------------|---------------|--|
| rfqNumber | String(15) | Yes | RFQ Number |
| id | String(15) | Yes | Negotiation Thread Id |
| date | Date | Yes | RFQ Date |
| isin | String(12) | Yes | ISIN |
| buySell | String(1) | Yes | Buy/Sell with respect to responder. (Opposite of RFQ Buy/Sell) B = Buy S = Sell |
| initSettlementType | Number | No | Initiator Quote Settlement Type 0 = T+0 1 = T+1 |
| initSettlementDate | Date | No | Initiator Quote Settlement Date Format : DD-MMM-YYYY |
| initAeCode | String(30) | No | RFQ Initiator Participant Code |
| initDealType | String(1) | No | D = Direct B = Brokered |
| initClientCode | String(30) | No | RFQ Initiator Client Code |

| | | | |
|---------------------|----------------|----|---|
| initClientRegType | String(1) | No | R = Retail – Unregistered (<i>CBRICS Unregistered participant introduced by a broker</i>) I = Institution - Regulated U = Institution – Unregulated |
| initValue | Decimal(10,10) | No | Initiator Quote Value in crores |
| initQuantity | Number | No | Initiator Quote Number of bonds |
| initYieldType | String(3) | No | Initiator Quote YTM / YTP / YTC |
| initYield | Decimal(3,4) | No | Initiator Quote Yield |
| initCalcMethod | String(1) | No | Initiator Quote Yield / Price calculation method M = Money Market O = Other |
| initPrice | Decimal(3,4) | No | Initiator Quote Price Valid only if quoteType = Both Price and Yield |
| initAccruedInterest | Decimal(15,2) | No | Initiator Quote Accrued Interest |
| initConsideration | Decimal(15,2) | No | Initiator Quote Consideration |
| initQuoteTime | Time | No | Initiator Quote Time Format HH24:MM:SS |
| initGtdFlag | String(1) | No | Flag to indicate Initiator quote is valid till end of trading hours. Y = Valid till day Null = valid till “endTime” |
| initEndTime | Time | No | Initiator Quote Expiry time Mandatory if initGtdFlag = null Format : HH24:MM |
| initRemarks | String(100) | No | Initiator Remarks |
| initLoginId | String(30) | No | Initiator User Login |
| respSettlementType | Number | No | Responder Quote Settlement Type 0 = T+0 1 = T+1 |
| respSettlementDate | Date | No | Responder Quote Settlement Date Format : DD-MMM-YYYY |
| respAeCode | String(30) | No | RFQ Responder Participant Code |
| respDealType | String(1) | No | D = Direct B = Brokered |
| respClientCode | String(30) | No | RFQ Responder Client Code |
| respClientRegType | String(1) | No | R = Retail – Unregistered (<i>CBRICS Unregistered participant introduced by a broker</i>) I = Institution - Regulated U = Institution – Unregulated |
| respValue | Decimal(10,10) | No | Responder Quote Value in crores |
| respQuantity | Number | No | Responder Quote Number of bonds |
| respYieldType | String(3) | No | Responder Quote YTM / YTP / YTC |
| respYield | Decimal(3,4) | No | Responder Quote Yield |
| respCalcMethod | String(1) | No | Responder Quote Yield / Price calculation method M = Money Market O = Other |
| respPrice | Decimal(3,4) | No | Responder Quote Price |

| | | | |
|-------------------------|----------------|-----|--|
| | | | Valid only if quoteType is “Both Price and Yield” |
| respAccruedInterest | Decimal(15,2) | No | Responder Quote Accrued Interest |
| respConsideration | Decimal(15,2) | No | Responder Quote Consideration |
| respQuoteTime | Time | No | Responder Quote Time Format HH24:MM:SS |
| respGtdFlag | String(1) | No | Flag to indicate Responder quote is valid till end of trading hours. Y = Valid till day Null = valid till “endTime” |
| respEndTime | Time | No | Responder Quote Expiry time Mandatory if respGtdFlag = null Format : HH24:MM |
| respRemarks | String(100) | No | Responder Remarks |
| respLoginId | String(30) | No | Responder User Login |
| status | String(1) | Yes | Negotiation thread status N = Negotiating R = Terminated A = Traded C = Consideration Confirmed E = Expired |
| tradeNumber | String(15) | No | Trade number. It is generated when status changes to “A” i.e Traded. The trade number gets populated as order number in CBRICS system. |
| acceptedSettlementType | Number | No | Accepted Quote Settlement Type 0 = T+0 1 = T+1 |
| acceptedSettlementDate | Date | No | Accepted Quote Settlement Date Format : DD-MMM-YYYY |
| acceptedValue | Decimal(10,10) | No | Accepted Quote Value in crores |
| acceptedQuantity | Number | No | Accepted Quote Number of bonds |
| acceptedYieldType | String(3) | No | Accepted Quote YTM / YTP / YTC |
| acceptedYield | Decimal(3,4) | No | Accepted Quote Yield |
| acceptedCalcMethod | String(1) | No | Accepted Quote Yield / Price calculation method M = Money Market O = Other |
| acceptedPrice | Decimal(3,4) | No | Accepted Quote Price Valid only if quoteType is “Both Price and Yield” |
| acceptedPutCallDate | Date | No | Put / Call date used for yield computation. |
| acceptedAccruedInterest | Decimal(15,2) | No | Accepted Quote Accrued Interest |
| acceptedConsideration | Decimal(15,2) | No | Accepted Quote Consideration |
| acceptedQuoteTime | Time | No | Accepted Quote Time Format HH24:MM:SS |
| acceptedBySide | String(1) | No | Accepted by side I = Initiator R = Responder |
| acceptedByLoginId | String(30) | No | Accepted by user login |

| | | | |
|-------------------------|------------------------------------|-----|--|
| confirmStatus | String(2) | No | Consideration Confirmation Status PP = Proposer Checker Pending* PC = Submitted to Counter PR = Proposer Checker Rejected* CA = Counter Checker Pending* CC = Confirmed CR = Counter Rejected *:These status are relevant only if Maker checker is enabled in the deal confirmation leg of proposer or counter party. |
| proposedBySide | String(1) | No | Consideration proposed by side I = Initiator R = Responder |
| proposedTime | Time | No | Consideration propose time |
| confirmedPriceQuoteTime | Time | No | Consideration confirmation time Format : HH24:MM:SS |
| lastActivityTimestamp | DateTime | Yes | Timestamp for the last negotiation or deal confirmation activity performed for the negotiation thread Format DD-MMM-YYYY HH24:MI:SS |
| tradeSplits | List< TradeSplit > | No | List of trade split |

Sample Response

```
{
  "date": "09-Dec-2022",
  "acceptedCalcMethod": null,
  "tradeNumber": null,
  "initQuoteTime": null,
  "initSettlementType": null,
  "respAeCode": "DFHI",
  "tradeSplits": null,
  "initSettlementDate": null,
  "initAccruedInterest": null,
  "acceptedValue": null,
  "confirmedPriceQuoteTime": null,
  "initGtdFlag": null,
  "initYield": null,
  "respAccruedInterest": null,
  "confirmStatus": null,
  "id": "N22120900000056",
  "initYieldType": null,
  "respPrice": null,
  "initLoginId": null,
  "respQuoteTime": "21:03:33",
  "respEndTime": "22:00",
  "acceptedBySide": null,
  "respCalcMethod": "M",
  "initAeCode": "INDBANK",
  "acceptedSettlementDate": null,
  "acceptedPrice": null,
  "respGtdFlag": "Y",
  "acceptedQuantity": null,
  "acceptedByLoginId": null,
  "acceptedAccruedInterest": null,
  "respConsideration": null,
}
```

```

"initQuantity": null,
"status": "N",
"respSettlementDate": "09-Dec-2022",
"respValue": 1,
"respLoginId": "NSHARMA",
"initPrice": null,
"respYieldType": "YTM",
"acceptedYieldType": null,
"acceptedSettlementType": null,
"acceptedConsideration": null,
"respSettlementType": 0,
"respRemarks": null,
"initValue": null,
"initCalcMethod": null,
"buySell": "S",
"acceptedQuoteTime": null,
"initAuId": null,
"rfqNumber": "R22120900000021",
"acceptedPutCallDate": null,
"acceptedYield": null,
"respYield": 4.6550,
"initConsideration": null,
"initEndTime": null,
"respQuantity": 10,
"isin": "INE020B08BH6",
"initRemarks": null,
"lastActivityTimestamp": "09-Dec-2022 21:03:33"
}

```

POST /rest/v1/negotiation/update

This API allows user to provide or revise or withdraw quote for a negotiation thread. This API can be used by both RFQ initiator as well as responder.

| | |
|-----------------|--|
| Method | POST |
| Url | <baseurl>/rest/v1/negotiation/update |
| Request | JSON |
| Response | JSON |

Request JSON

Map containing following fields

| Field | Type | Mandator y | Description |
|-------------|------------|---------------|---|
| ngId | String(15) | Yes | Negotiation Thread Id |
| role | String(1) | Yes | Side of the negotiation whose quote needs to be updated I = If initiator side of the RFQ R = if responder side of the RFQ |
| ngRfqNumber | String(15) | Yes | RFQ Number |
| aeCode | String(30) | Yes | Always logged in user's participant code |
| dealType | String(1) | Yes | D = Direct B = Brokered If role = initiator then should be same as in RFQ else it should be same as one specified at the time for negotiation/add |

| | | | |
|----------------|----------------|-------------|--|
| clientCode | String(30) | Yes | Participant code of the client. If role = initiator then should be same as in RFQ else it should be same as one specified at the time for negotiation/add |
| settlementType | Number | Yes | 0 = T+0 1 = T+1 |
| value | Decimal(10,10) | Yes | Quote Value in crores |
| quantity | Number | No | Quote Number of bonds If not provided system computes quantity using value and issue face value. |
| yieldType | String(3) | Yes | YTM / YTP / YTC |
| yield | Decimal(3,4) | Yes | Yield |
| calcMethod | String(1) | Yes | Yield / Price calculation method M = Money Market O = Other |
| price | Decimal(3,4) | Conditional | Price Valid and Mandatory only if RFQ quoteType is "Both Price and Yield" |
| gtdFlag | String(1) | No | Flag to indicate Negotiation is valid till end of trading hours. Y = Valid till day Null = valid till "endTime" |
| endTime | Time | Conditional | Quote Expiry time Mandatory if gtdFlag = null Format : HH24:MM |
| remarks | String(100) | No | Remarks |

Response JSON

Map with structure same as [Response JSON](#) of POST /rest/v1/negotiation/add

Sample Response

```
{
  "date": "09-Dec-2022",
  "acceptedCalcMethod": null,
  "tradeNumber": null,
  "initQuoteTime": null,
  "initSettlementType": null,
  "respAeCode": "DFHI",
  "tradeSplits": null,
  "initSettlementDate": null,
  "initAccruedInterest": null,
  "acceptedValue": null,
  "confirmedPriceQuoteTime": null,
  "initGtdFlag": null,
  "initYield": null,
  "respAccruedInterest": null,
  "confirmStatus": null,
  "id": "N22120900000056",
  "initYieldType": null,
  "respPrice": null,
  "initLoginId": null,
  "respQuoteTime": "21:03:48",
```

```

"respEndTime": "22:00",
"acceptedBySide": null,
"respCalcMethod": "M",
"initAeCode": "INDBANK",
"acceptedSettlementDate": null,
"acceptedPrice": null,
"respGtdFlag": "Y",
"acceptedQuantity": null,
"acceptedByLoginId": null,
"acceptedAccruedInterest": null,
"respConsideration": null,
"initQuantity": null,
"status": "N",
"respSettlementDate": "09-Dec-2022",
"respValue": 2,
"respLoginId": "NSHARMA",
"initPrice": null,
"respYieldType": "YTM",
"acceptedYieldType": null,
"acceptedSettlementType": null,
"acceptedConsideration": null,
"respSettlementType": 0,
"respRemarks": null,
"initValue": null,
"initCalcMethod": null,
"buySell": "S",
"acceptedQuoteTime": null,
"initAuId": null,
"rfqNumber": "R22120900000021",
"acceptedPutCallDate": null,
"acceptedYield": null,
"respYield": 4.5550,
"initConsideration": null,
"initEndTime": null,
"respQuantity": 20,
"isin": "INE020B08BH6",
"initRemarks": null,
"lastActivityTimestamp": "09-Dec-2022 21:03:33"
}

```

POST /rest/v1/negotiation/withdrawquote

This API allows user to withdraw his/her quotes of one or more negotiation threads. The API can be used by both Initiator as well as Responder of RFQ.

| | |
|-----------------|---|
| Method | POST |
| Url | <baseurl>/rest/v1/negotiation/withdrawquote |
| Request | JSON |
| Response | JSON |

Request JSON

List of Map. Each map represents a negotiation thread and contains following fields

| Field | Type | Mandatory | Description |
|-----------|------------|-----------|---|
| rfqNumber | String(15) | Yes | RFQ Number |
| id | String(15) | Yes | Negotiation Thread Id |
| role | String(1) | Yes | Side of negotiation whose quote is being withdrawn I = If initiator of the RFQ |

| | | | |
|--|--|--|-----------------------------|
| | | | R = if responder to the RFQ |
|--|--|--|-----------------------------|

Sample Request

```
[
  {
    "rfqNumber": "R22120900000021",
    "id" : "N22120900000056",
    "role" : "R"
  }
]
```

Response JSON

List of Map. Each map represents a negotiation thread with structure same as [Response JSON](#) of POST /rest/v1/negotiation/add

Sample Response

```
[
  {
    "date": "09-Dec-2022",
    "acceptedCalcMethod": null,
    "tradeNumber": null,
    "initQuoteTime": null,
    "initSettlementType": null,
    "respAeCode": "DFHI",
    "tradeSplits": null,
    "initSettlementDate": null,
    "initAccruedInterest": null,
    "acceptedValue": null,
    "confirmedPriceQuoteTime": null,
    "initGtdFlag": null,
    "initYield": null,
    "respAccruedInterest": null,
    "confirmStatus": null,
    "id": "N22120900000056",
    "initYieldType": null,
    "respPrice": null,
    "initLoginId": null,
    "respQuoteTime": "21:05:44",
    "respEndTime": null,
    "acceptedBySide": null,
    "respCalcMethod": null,
    "initAeCode": "INDBANK",
    "acceptedSettlementDate": null,
    "acceptedPrice": null,
    "respGtdFlag": null,
    "acceptedQuantity": null,
    "acceptedByLoginId": null,
    "acceptedAccruedInterest": null,
    "respConsideration": null,
    "initQuantity": null,
    "status": "N",
    "respSettlementDate": null,
    "respValue": null,
    "respLoginId": "NSHARMA",
    "initPrice": null,
    "respYieldType": null,
    "acceptedYieldType": null,
    "acceptedSettlementType": null,
    "acceptedConsideration": null,
  }
]
```

```

    "respSettlementType": null,
    "respRemarks": null,
    "initValue": null,
    "initCalcMethod": null,
    "buySell": "S",
    "acceptedQuoteTime": null,
    "initAuId": null,
    "rfqNumber": "R22120900000021",
    "acceptedPutCallDate": null,
    "acceptedYield": null,
    "respYield": null,
    "initConsideration": null,
    "initEndTime": null,
    "respQuantity": null,
    "isin": "INE020B08BH6",
    "initRemarks": null,
    "lastActivityTimestamp": "09-Dec-2022 21:03:33"
  }
]

```

POST /rest/v1/negotiation/terminate

This API allows user to terminate a negotiation thread. The API can be used by both Initiator as well as Responder of RFQ.

| | |
|-----------------|---|
| Method | POST |
| Url | <baseurl>/rest/v1/negotiation/terminate |
| Request | JSON |
| Response | JSON |

Request JSON

Map containing following fields

| Field | Type | Mandatory | Description |
|-----------|------------|-----------|--|
| rfqNumber | String(15) | Yes | RFQ Number |
| id | String(15) | Yes | Negotiation Thread Id |
| role | String(1) | Yes | Side of negotiation that is terminating the thread I = If initiator of the RFQ R = if responder to the RFQ |

Sample Request

```

{
  "rfqNumber": "R22120900000021",
  "id" : "N22120900000056",
  "role" : "R"
}

```

Response JSON

Map representing a negotiation thread with structure same as [Response JSON](#) of POST /rest/v1/negotiation/add

Sample Response

```

{
  "date": "09-Dec-2022",
  "acceptedCalcMethod": null,
  "tradeNumber": null,

```

```
"initQuoteTime": null,
"initSettlementType": null,
"respAeCode": "DFHI",
"tradeSplits": null,
"initSettlementDate": null,
"initAccruedInterest": null,
"acceptedValue": null,
"confirmedPriceQuoteTime": null,
"initGtdFlag": null,
"initYield": null,
"respAccruedInterest": null,
"confirmStatus": null,
"id": "N22120900000056",
"initYieldType": null,
"respPrice": null,
"initLoginId": null,
"respQuoteTime": "21:05:44",
"respEndTime": null,
"acceptedBySide": "R",
"respCalcMethod": null,
"initAeCode": "INDBANK",
"acceptedSettlementDate": null,
"acceptedPrice": null,
"respGtdFlag": null,
"acceptedQuantity": null,
"acceptedByLoginId": "NSHARMA",
"acceptedAccruedInterest": null,
"respConsideration": null,
"initQuantity": null,
"status": "R",
"respSettlementDate": null,
"respValue": null,
"respLoginId": "NSHARMA",
"initPrice": null,
"respYieldType": null,
"acceptedYieldType": null,
"acceptedSettlementType": null,
"acceptedConsideration": null,
"respSettlementType": null,
"respRemarks": null,
"initValue": null,
"initCalcMethod": null,
"buySell": "S",
"acceptedQuoteTime": "21:06:21",
"initAuId": null,
"rfqNumber": "R22120900000021",
"acceptedPutCallDate": null,
"acceptedYield": null,
"respYield": null,
"initConsideration": null,
"initEndTime": null,
"respQuantity": null,
"isin": "INE020B08BH6",
"initRemarks": null,
"lastActivityTimestamp": "09-Dec-2022 21:03:33"
}
```

POST /rest/v1/negotiation/accept

This API allows user to accept counter party quote and can be used by both Initiator as well as Responder of RFQ. The API also allows responders to directly accept RFQ without initiating any quote.

| | |
|-----------------|--|
| Method | POST |
| Url | <baseurl>/rest/v1/negotiation/accept |
| Request | JSON |
| Response | JSON |

Request JSON

Map containing following fields

| Field | Type | Mandator y | Description |
|------------------------|----------------|-----------------|--|
| rfqNumber | String(15) | Yes | RFQ Number |
| acceptedValue | Decimal(10,10) | Yes | Accepted Quote Value in crores |
| id | String(15) | No | Negotiation Thread Id. If null then indicates direct acceptance by responder. |
| acceptedSettlementDate | Date | No | Accepted Quote Settlement Date Format : DD-MMM-YYYY If provided should match the corresponding value in the RFQ for direct acceptance or the counter negotiation value. |
| acceptedYieldType | String(3) | No | Accepted Quote YTM / YTP / YTC If provided should match the corresponding value in the RFQ for direct acceptance or the counter negotiation value. |
| acceptedYield | Decimal(3,4) | No | Accepted Quote Yield If provided should match the corresponding value in the RFQ for direct acceptance or the counter negotiation value. |
| acceptedPrice | Decimal(3,4) | No | Accepted Quote Price If provided should match the corresponding value in the RFQ for direct acceptance or the counter negotiation value. |
| respDealType | String(1) | Conditiona l | D = Direct (default) B = Brokered Mandatory if direct acceptance I.e."id" is null. |
| respClientCode | String(30) | Conditiona l | Client Code Mandatory if direct acceptance I.e."id" is null. |
| role | String(1) | Conditiona l | Side whose quote is being accepted I = If RFQ initiators quote is accepted R = if responders quote is accepted Mandatory if not a direct acceptance I.e. "id" is specified |

Sample Request

```
{
  "rfqNumber" : "R22120900000020",
  "acceptedValue" : 1,
  "respDealType" : "B",
  "respClientCode" : "BARCLAYS"
}
```

```
{
  "rfqNumber" : "R23011400000038",
  "acceptedValue" : 1,
  "id": "N23011400000037",
  "role" : "R"
}
```

Response JSON

List of Map. Each map represents a negotiation thread with structure same as [Response JSON](#) of POST /rest/v1/negotiation/add

Sample Response

```
{
  "date": "09-Dec-2022",
  "acceptedCalcMethod": "O",
  "tradeNumber": "2212099900000055",
  "initQuoteTime": "21:52:42",
  "initSettlementType": 0,
  "respAeCode": "DFHI",
  "tradeSplits": null,
  "initSettlementDate": "09-Dec-2022",
  "initAccruedInterest": null,
  "acceptedValue": 1,
  "confirmedPriceQuoteTime": null,
  "initGtdFlag": null,
  "initYield": 6.0000,
  "respAccruedInterest": null,
  "confirmStatus": null,
  "id": "N22120900000054",
  "initYieldType": "YTM",
  "respPrice": null,
  "initLoginId": null,
  "respQuoteTime": null,
  "respEndTime": null,
  "acceptedBySide": "R",
  "respCalcMethod": null,
  "initAeCode": "INDBANK",
  "acceptedSettlementDate": "09-Dec-2022",
  "acceptedPrice": null,
  "respGtdFlag": null,
  "acceptedQuantity": 10,
  "acceptedByLoginId": "NSHARMA",
  "acceptedAccruedInterest": null,
  "respConsideration": null,
  "initQuantity": 10,
  "status": "A",
  "respSettlementDate": null,
}
```

```

"respValue": null,
"respLoginId": "NSHARMA",
"initPrice": null,
"respYieldType": null,
"acceptedYieldType": "YTM",
"acceptedSettlementType": 0,
"acceptedConsideration": null,
"respSettlementType": null,
"respRemarks": null,
"initValue": 1,
"initCalcMethod": "O",
"buySell": "S",
"acceptedQuoteTime": "21:52:42",
"initAuId": null,
"rfqNumber": "R22120900000020",
"acceptedPutCallDate": null,
"acceptedYield": 6.0000,
"respYield": null,
"initConsideration": null,
"initEndTime": null,
"respQuantity": null,
"isin": "INE020B08BH6",
"initRemarks": null,
"lastActivityTimestamp": "09-Dec-2022 21:03:33"
}

```

POST /rest/v1/negotiation/all

This API returns list of all negotiations based on input filters. The API can be used by both Initiator as well as Responder of RFQ.

| | |
|-----------------|---|
| Method | POST |
| Url | <baseurl>/rest/v1/negotiation/all |
| Request | JSON |
| Response | JSON |

Request JSON

Map for filtering response rows and contains following fields

| Field | Type | Mandatory | Description |
|-------------|------------|-----------|--|
| rfqNumber | String(15) | No | RFQ Number |
| id | String(15) | No | Negotiation Thread Id |
| date | Date | No | Default current date |
| isin | String(12) | No | ISIN |
| buySell | String(1) | No | Buy/Sell with respect to responder. (Opposite of RFQ Buy/Sell) B = Buy S = Sell |
| status | String(1) | No | Negotiation thread status N = Negotiating R = Terminated A = Traded C = Consideration Confirmed E = Expired |
| tradeNumber | String(15) | No | Trade number. It is generated when status changes to "A" i.e Traded. The |

| | | | |
|---------------|-----------|----|--|
| | | | trade number gets populated as order number in CBRICS system. |
| confirmStatus | String(2) | No | Consideration Confirmation Status PP = Proposer Checker Pending* PC = Submitted to Counter PR = Proposer Checker Rejected* CA = Counter Checker Pending* CC = Confirmed CR = Counter Rejected *:These status are relevant only if Maker checker is enabled in the deal confirmation leg of proposer or counter party. |
| fromTimestamp | DateTime | No | Filters applied on lastActivityTimestamp |
| toTimestamp | DateTime | No | |

Sample Request

```
{
  "rfqNumber": null,
  "id" : null
}
```

Response JSON

List of Map. Each map represents a negotiation thread with structure same as [Response JSON](#) of POST /rest/v1/negotiation/add

Sample Response

```
[
  {
    "date": "09-Dec-2022",
    "acceptedCalcMethod": null,
    "tradeNumber": null,
    "initQuoteTime": null,
    "initSettlementType": null,
    "respAeCode": "DFHI",
    "tradeSplits": null,
    "initSettlementDate": null,
    "initAccruedInterest": null,
    "acceptedValue": null,
    "confirmedPriceQuoteTime": null,
    "initGtdFlag": null,
    "initYield": null,
    "respAccruedInterest": null,
    "confirmStatus": null,
    "id": "N22120900000046",
    "initYieldType": null,
    "respPrice": null,
    "initLoginId": null,
    "respQuoteTime": "21:29:07",
    "respEndTime": "22:00",
    "acceptedBySide": null,
    "respCalcMethod": "M",
    "initAeCode": "INDBANK",
    "acceptedSettlementDate": null,
    "acceptedPrice": null,
    "respGtdFlag": "Y",
  }
]
```

```
"acceptedQuantity": null,  
"acceptedByLoginId": null,  
"acceptedAccruedInterest": null,  
"respConsideration": null,  
"initQuantity": null,  
"status": "N",  
"respSettlementDate": "09-Dec-2022",  
"respValue": 2.000000,  
"respLoginId": "NSHARMA",  
"initPrice": null,  
"respYieldType": "YTM",  
"acceptedYieldType": null,  
"acceptedSettlementType": null,  
"acceptedConsideration": null,  
"respSettlementType": 0,  
"respRemarks": null,  
"initValue": null,  
"initCalcMethod": null,  
"buySell": "S",  
"acceptedQuoteTime": null,  
"initAuId": null,  
"rfqNumber": "R22120900000020",  
"acceptedPutCallDate": null,  
"acceptedYield": null,  
"respYield": 4.5550,  
"initConsideration": null,  
"initEndTime": null,  
"respQuantity": 20,  
"isin": "INE020B08BH6",  
"initRemarks": null,  
"lastActivityTimestamp": "09-Dec-2022 21:03:33"  
},  
{  
  "date": "09-Dec-2022",  
  "acceptedCalcMethod": null,  
  "tradeNumber": null,  
  "initQuoteTime": null,  
  "initSettlementType": null,  
  "respAeCode": "DFHI",  
  "tradeSplits": null,  
  "initSettlementDate": null,  
  "initAccruedInterest": null,  
  "acceptedValue": null,  
  "confirmedPriceQuoteTime": null,  
  "initGtdFlag": null,  
  "initYield": null,  
  "respAccruedInterest": null,  
  "confirmStatus": null,  
  "acceptedByAuId": null,  
  "id": "N22120900000045",  
  "initYieldType": null,  
  "respPrice": null,  
  "initLoginId": null,  
  "respQuoteTime": "21:14:24",  
  "respEndTime": "22:00",  
  "acceptedBySide": "I",  
  "respCalcMethod": "M",  
  "initAeCode": "INDBANK",  
  "acceptedSettlementDate": null,  
  "acceptedPrice": null,  
  "respGtdFlag": "Y",
```

```
"acceptedQuantity": null,  
"acceptedByLoginId": "INDBANK",  
"acceptedAccruedInterest": null,  
"respConsideration": null,  
"initQuantity": null,  
"status": "R",  
"respSettlementDate": "09-Dec-2022",  
"respValue": 1.000000,  
"respLoginId": "NSHARMA",  
"initPrice": null,  
"respYieldType": "YTM",  
"acceptedYieldType": null,  
"acceptedSettlementType": null,  
"acceptedConsideration": null,  
"respSettlementType": 0,  
"respRemarks": null,  
"initValue": null,  
"initCalcMethod": null,  
"buySell": "S",  
"acceptedQuoteTime": "21:23:14",  
"initAuId": null,  
"rfqNumber": "R22120900000020",  
"acceptedPutCallDate": null,  
"acceptedYield": null,  
"respYield": 4.6550,  
"initConsideration": null,  
"initEndTime": null,  
"respQuantity": 10,  
"isin": "INE020B08BH6",  
"initRemarks": null,  
"lastActivityTimestamp": "09-Dec-2022 21:03:33"  
}  
]
```

Deal Confirmation API

POST /rest/v1/deal/propose

This API allows user to propose consideration for a negotiated deal. It can be used by both initiator as well as responder of an RFQ.

| | |
|-----------------|--|
| Method | POST |
| Url | <baseurl>/rest/v1/deal/propose |
| Request | JSON |
| Response | JSON |

Request JSON

Map containing following fields

| Field | Type | Mandatory | Description |
|-----------------|------------------------------------|-----------|---|
| ngRfqNumber | String(15) | Yes | RFQ Number |
| ngId | String(15) | Yes | Negotiation Thread Id. |
| participantCode | String(30) | Yes | Always logged in user's participant code |
| dealType | String(1) | Yes | Final Deal Type D = Direct B = Brokered |
| clientCode | String(30) | Yes | Final Client code. Deal Type and Client code can be different from one specified in the RFQ or negotiation. |
| price | Decimal(3,4) | Yes | Proposed Price. Valid and mandatory if RFQ quote type is Only Yield |
| accruedInterest | Decimal(15,2) | Yes | Accrued Interest |
| consideration | Decimal(15,2) | Yes | Total consideration |
| calcMethod | String(1) | Yes | Yield / Price calculation method M = Money Market O = Other |
| putCallDate | Date | No | Put / Call date used for yield computation. Mandatory if confirmed yield type is either YTP or YTC. If yield type is YTM then maturity date can be provided optionally in case it is different from the maturity date provided in RFQ setup |
| remarks | String(100) | No | Remarks |
| tradeSplits | List< TradeSplit > | No | List of trade splits |
| role | String(1) | Yes | Side whose consideration is being proposed I = If for initiators R = if for responders |

TradeSplit JSON

| Field | Type | Mandatory | Description |
|-------|----------------|-----------|------------------------|
| val | Decimal(10,10) | Yes | Split value in crores. |
| qty | Number | Yes | Split quantity |

| | | | |
|-----------------|---------------|-----|---|
| accInt | Decimal(15,2) | Yes | Split Accrued Interest |
| cons | Decimal(15,2) | Yes | Split consideration |
| propCust | String(30) | No | Split custodian |
| couCust | String(30) | No | Counter party custodian. (To be provided only by counter party in API POST /rest/v1/deal/tradesplit) |
| propActPartCode | String(30) | No | Proposer Actual Participant Code. (Deal split provision for multiple client-wise by Brokers. This need to be provided in API POST /rest/v1/deal/tradesplit) |
| couActPartCode | String(30) | No | Counter Actual Participant Code. (Deal split provision for multiple client-wise by Brokers. This need to be provided in API POST /rest/v1/deal/tradesplit) |

Sample Request

```
{
  "ngRfqNumber": "R22120900000020",
  "ngId": "N22120900000055",
  "dealType": "D",
  "calcMethod": "O",
  "putCallDate": "31-Dec-2023",
  "clientCode": "DFHI",
  "price": 100,
  "accruedInterest": 1,
  "consideration": 10000001
}
```

Response JSON

Map with structure same as [Response JSON](#) of POST /rest/v1/negotiation/add

Sample Response

```
{
  "date": "09-Dec-2022",
  "acceptedCalcMethod": "O",
  "tradeNumber": "221209990000056",
  "initQuoteTime": "21:57:18",
  "initSettlementType": 0,
  "respAeCode": "DFHI",
  "tradeSplits": null,
  "initSettlementDate": "09-Dec-2022",
  "initAccruedInterest": null,
  "acceptedValue": 1.000000,
  "confirmedPriceQuoteTime": null,
  "initGtdFlag": null,
  "initYield": 6.0000,
  "respAccruedInterest": null,
  "confirmStatus": "PC",
  "id": "N22120900000055",
  "initYieldType": "YTM",
  "respPrice": null,
  "initLoginId": null,
  "respQuoteTime": null,
  "respEndTime": null,
  "acceptedBySide": "R",
}
```

```

"respCalcMethod": null,
"initAeCode": "INDBANK",
"acceptedSettlementDate": "09-Dec-2022",
"acceptedPrice": 100,
"respGtdFlag": null,
"acceptedQuantity": 10,
"acceptedByLoginId": "NSHARMA",
"acceptedAccruedInterest": 1,
"respConsideration": null,
"initQuantity": 10,
"status": "A",
"respSettlementDate": null,
"respValue": null,
"respLoginId": "NSHARMA",
"initPrice": null,
"respYieldType": null,
"acceptedYieldType": "YTM",
"acceptedSettlementType": 0,
"acceptedConsideration": 10000001,
"respSettlementType": null,
"respRemarks": null,
"initValue": 1.000000,
"initCalcMethod": "O",
"buySell": "S",
"acceptedQuoteTime": "21:57:18",
"initAuId": null,
"rfqNumber": "R22120900000020",
"acceptedPutCallDate": "31-Dec-2023",
"acceptedYield": 6.0000,
"respYield": null,
"initConsideration": null,
"initEndTime": null,
"respQuantity": null,
"isin": "INE020B08BH6",
"initRemarks": null,
"lastActivityTimestamp": "09-Dec-2022 21:03:33"
}

```

POST /rest/v1/deal/acceptreject

This API allows user to accept or reject proposed consideration for a deal. It can be invoked by consideration proposer checker as well as counter party maker and checker users

| | |
|-----------------|---|
| Method | POST |
| Url | <baseurl>/rest/v1/deal/acceptreject |
| Request | JSON |
| Response | JSON |

Request JSON

Map containing following fields

| Field | Type | Mandatory | Description |
|---------------------|--------------|-----------|---|
| rfqNumber | String(15) | Yes | RFQ Number |
| id | String(15) | Yes | Negotiation Thread Id. |
| acceptedPrice | Decimal(3,4) | No | If provided then it should be same as one proposed. |
| acceptedPutCallDate | Date | No | If it is provided then it should be same as one proposed. |

| | | | |
|-------------------------|---------------|-----|--|
| acceptedAccruedInterest | Decimal(15,2) | No | Accrued Interest. If provided should be same as proposed. |
| acceptedConsideration | Decimal(15,2) | No | Total consideration. If provided should be same as proposed. |
| confirmStatus | String(1) | Yes | Confirm status PC = Accept PR = Reject |

Sample Request

```
{
  "rfqNumber": "R22120900000020",
  "id": "N22120900000048",
  "acceptedPrice": 111,
  "acceptedPutCallDate": null,
  "acceptedAccruedInterest": 1,
  "acceptedConsideration": 11100001.00,
  "confirmStatus": "PC"
}
```

Response JSON

Map with structure same as [Response JSON](#) of POST /rest/v1/negotiation/add

Sample Response

```
{
  "date": "09-Dec-2022",
  "acceptedCalcMethod": "O",
  "tradeNumber": "221209990000049",
  "initQuoteTime": "21:45:39",
  "initSettlementType": 0,
  "respAeCode": "DFHI",
  "tradeSplits": null,
  "initSettlementDate": "09-Dec-2022",
  "initAccruedInterest": null,
  "acceptedValue": 1.000000,
  "confirmedPriceQuoteTime": "21:21:16",
  "initGtdFlag": null,
  "initYield": 6.0000,
  "respAccruedInterest": null,
  "confirmStatus": "CC",
  "id": "N22120900000048",
  "initYieldType": "YTM",
  "respPrice": null,
  "initLoginId": null,
  "respQuoteTime": null,
  "respEndTime": null,
  "acceptedBySide": "R",
  "respCalcMethod": null,
  "initAeCode": "INDBANK",
  "acceptedSettlementDate": "09-Dec-2022",
  "acceptedPrice": 111.0000,
  "respGtdFlag": null,
  "acceptedQuantity": 10,
  "acceptedByLoginId": "DFHI",
  "acceptedAccruedInterest": 1.00,
  "respConsideration": null,
  "initQuantity": 10,
  "status": "C",
  "respSettlementDate": null,
}
```

```

"respValue": null,
"respLoginId": "DFHI",
"initPrice": null,
"respYieldType": null,
"acceptedYieldType": "YTM",
"acceptedSettlementType": 0,
"acceptedConsideration": 11100001.00,
"respSettlementType": null,
"respRemarks": null,
"initValue": 1.000000,
"initCalcMethod": "O",
"buySell": "S",
"acceptedQuoteTime": "21:45:39",
"initAuId": null,
"rfqNumber": "R22120900000020",
"acceptedPutCallDate": "07-Dec-2028",
"acceptedYield": 6.0000,
"respYield": null,
"initConsideration": null,
"initEndTime": null,
"respQuantity": null,
"isin": "INE020B08BH6",
"initRemarks": null,
"lastActivityTimestamp": "09-Dec-2022 21:03:33"
}

```

POST /rest/v1/deal/tradesplit

This API allows counter participant in a deal consideration confirmation workflow to optionally provide trade splits.

| | |
|-----------------|---|
| Method | POST |
| Url | <baseurl>/rest/v1/deal/tradesplit |
| Request | JSON |
| Response | JSON |

Request JSON

Map containing following fields

| Field | Type | Mandatory | Description |
|-------------|------------------------------------|-----------|---|
| rfqNumber | String(15) | Yes | RFQ Number |
| id | String(15) | Yes | Negotiation Thread Id. If null then indicates direct acceptance by responder |
| tradeSplits | List< TradeSplit > | No | List of trade splits |

Sample Request

```

{
  "rfqNumber": "R21051200000001",
  "id": "N21051200000001",
  "tradeSplits": [
    {
      "val": 5.0,
      "qty": 50,
      "accInt": 1234,
      "cons": 10101234,
      "propCust": "CUST001",
      "couCust": "CUST002"
    }
  ]
}

```

```
}  
]  
}
```

Response JSON

Map with structure same as [Response JSON](#) of POST /rest/v1/negotiation/add

Sample Response

```
{  
  "rfqNumber" : "R21051100000002",  
  "id" : "N21051100000001",  
  "date" : "07-May-2021",  
  "isin" : "INE123456789",  
  "buySell" : "S",  
  "initSettlementType" : 0,  
  "initSettlementDate" : "07-May-2021",  
  "initClientCode" : "PART001",  
  "initAeCode" : "PART001",  
  "initValue" : null,  
  "initQuantity" : null,  
  "initYieldType" : null,  
  "initYield" : null,  
  "initCalcMethod" : null,  
  "initPrice" : null,  
  "initQuoteTime" : null,  
  "initGtdFlag" : null,  
  "initEndTime" : null,  
  "initRemarks" : null,  
  "initLoginId" : null,  
  "respSettlementType" : 0,  
  "respSettlementDate" : "07-May-2021",  
  "respClientCode" : "MF001",  
  "respAeCode" : "MF001",  
  "respValue" : 10,  
  "respQuantity" : 100,  
  "respYieldType" : "YTM",  
  "respYield" : 5.561,  
  "respCalcMethod" : "M",  
  "respPrice" : 103.131,  
  "respPutCallDate" : null,  
  "respQuoteTime" : "10:12:56",  
  "respGtdFlag" : "Y",  
  "respEndTime" : null,  
  "respRemarks" : null,  
  "respLoginId" : "USER001",  
  "status" : "A",  
  "tradeNumber" : "210428990000001",  
  "acceptedSettlementType" : "0",  
  "acceptedSettlementDate" : "11-May-2021",  
  "acceptedValue" : 10,  
  "acceptedQuantity" : 100,  
  "acceptedYieldType" : "YTM",  
  "acceptedYield" : 5.565,  
  "acceptedCalcMethod" : "M",  
  "acceptedPrice" : 103.135,  
  "acceptedAccruedInterest": 1234,  
  "acceptedConsideration": 102001234,  
  "acceptedQuoteTime" : "11:45:45",  
  "acceptedBySide" : "R",  
  "acceptedByLoginId" : "USER002",  
}
```

```

"confirmStatus" : "PR",
"confirmedPriceQuoteTime" : null,,
"lastActivityTimestamp": "09-Dec-2022 21:03:33"
"tradeSplits": [
  {
    "val": 5.0,
    "qty": 50,
    "accInt": 1234,
    "cons": 10101234,
    "propCust": "CUST001",
    "couCust": "CUST002"
  }
]
}

```

POST /rest/v1/deal/changeclient

This API allows counter participant in a deal consideration confirmation workflow to optionally provide a different client code. This option is available only with participants who are registered as Brokers

| | |
|-----------------|-------------------------------------|
| Method | POST |
| Url | <baseurl>/rest/v1/deal/changeclient |
| Request | JSON |
| Response | JSON |

Request JSON

Map containing following fields

| Field | Type | Mandatory | Description |
|-------------|------------|-----------|---|
| ngRfqNumber | String(15) | Yes | RFQ Number |
| ngId | String(15) | Yes | Negotiation Thread Id. If null then indicates direct acceptance by responder |
| dealType | String(1) | Yes | Deal Type D = Direct B = Brokered |
| clientCode | String(30) | Yes | Brokers can specify broker's participant code or code of any registered (institutional") or unregistered (retail) participants and it can be different than the original participantCode specified during RFQ setup or negotiation. |
| buySell | String(1) | Yes | B = for change buy client of deal S = for changing sell client of deal |

Sample Request

```

{
  "ngRfqNumber": "R22120900000020",
  "ngId": "N22120900000053",
  "dealType": "B",
  "clientCode": "BARCLAYS",
  "buySell": "S"
}

```

Response JSON

Map with structure same as [Response JSON](#) of POST /rest/v1/negotiation/add

Sample Response

```
{
  "date": "09-Dec-2022",
  "acceptedCalcMethod": "O",
  "tradeNumber": "221209990000054",
  "initQuoteTime": "21:52:20",
  "initSettlementType": 0,
  "respAeCode": "DFHI",
  "tradeSplits": null,
  "initSettlementDate": "09-Dec-2022",
  "initAccruedInterest": null,
  "acceptedValue": 1.000000,
  "confirmedPriceQuoteTime": null,
  "initGtdFlag": null,
  "initYield": 6.0000,
  "respClientCode": "BARCLAYS",
  "respAccruedInterest": null,
  "confirmStatus": "PC",
  "respClientRegType": "I",
  "id": "N22120900000053",
  "initYieldType": "YTM",
  "respPrice": null,
  "initLoginId": null,
  "respQuoteTime": null,
  "respEndTime": null,
  "acceptedBySide": "R",
  "respCalcMethod": null,
  "initAeCode": "INDBANK",
  "acceptedSettlementDate": "09-Dec-2022",
  "acceptedPrice": 111.0000,
  "respGtdFlag": null,
  "acceptedQuantity": 10,
  "acceptedByLoginId": "NSHARMA",
  "acceptedAccruedInterest": 12.00,
  "respConsideration": null,
  "initQuantity": 10,
  "respDealType": "B",
  "status": "A",
  "respSettlementDate": null,
  "respValue": null,
  "initClientRegType": "I",
  "respLoginId": "NSHARMA",
  "initPrice": null,
  "initClientCode": "INDBANK",
  "respYieldType": null,
  "acceptedYieldType": "YTM",
  "acceptedSettlementType": 0,
  "acceptedConsideration": 11100012.00,
  "respSettlementType": null,
  "respRemarks": null,
  "initValue": 1.000000,
  "initCalcMethod": "O",
  "buySell": "S",
  "acceptedQuoteTime": "21:52:20",
  "initAuId": null,
  "rfqNumber": "R22120900000020",
  "acceptedPutCallDate": "07-Dec-2028",
```

```
"acceptedYield": 6.0000,  
"respYield": null,  
"initConsideration": null,  
"initEndTime": null,  
"respQuantity": null,  
"isin": "INE020B08BH6",  
"initDealType": "D",  
"initRemarks": null,  
"lastActivityTimestamp": "09-Dec-2022 21:03:33"  
}
```

Deal Amendment API

POST /rest/v1/dealamend/modifycancel

This API allows user to propose a modification or cancellation of a confirmed deal. It can be used by both initiator as well as responder of an RFQ. In case of brokered deals for institutional clients (having RFQ access), the API can be used only by the institutional client.

| | |
|-----------------|--|
| Method | POST |
| Url | <baseurl>/rest/v1/dealamend/modifycancel |
| Request | JSON |
| Response | JSON |

Request JSON

Map containing following fields

| Field | Type | Mandatory | Description |
|--------------------|------------------------|-------------|--|
| rfqNumber | String(15) | Yes | RFQ Number corresponding to the deal. |
| ngld | String(15) | Yes | Negotiation Thread Id corresponding to the deal. |
| requestType | String(1) | Yes | M = Modification C = Cancellation |
| modYieldType | String(1) | Conditional | New Yield Type Mandatory if requestType=M. Ignored other wise. YTM / YTP / YTC |
| modAccruedInterest | Decimal(15,2) | Conditional | New Accrued Interest. Mandatory if requestType=M. Ignored other wise. |
| modSettlementType | String(1) | Conditional | New Settlement Type. Mandatory if requestType=M. Ignored other wise. 0 = T+0 1 = T+1 |
| modReason | String(10) | Conditional | Modification Reason. Mandatory if requestType=M. Ignored other wise. See Appendix A - Modification Reasons |
| cancReason | String(10) | Conditional | Cancellation Reason. Mandatory if requestType=C. Ignored other wise. See Appendix A - Cancellation Reasons |
| proposerRemarks | String(200) | No | Optional remarks for counter party. |
| tradeSplits | List<TradeSplitModReq> | No | Applicable only if requestType=M. Required if original RFQ trade had splits. |
| proposedBySide | String (1) | Conditional | Mandatory if buyer broker and seller broker are the same. It Can be Ignored if the brokers are different. BuyerClient - B, SellerClient - S |

TradeSplitModReq JSON

| Field | Type | Mandatory | Description |
|-----------|---------------|-----------|--|
| trdNo | String(15) | Yes | Trade/Deal number of the split trade |
| modAccInt | Decimal(15,2) | Yes | Modified Accrued Interest of the split trade |
| modCons | Decimal(15,2) | Yes | Modified consideration of the split trade |

Sample Request - Modification

```
{
  "rfqNumber": "R23062400000001",
  "ngId": "N23062400000002",
  "requestType": "M",
  "modYieldType": "YTP",
  "modAccruedInterest": 12345.67,
  "proposedBySide": "B",
  "modSettlementType": 1,
  "modReason": "SETTYP",
  "proposerRemarks": null
}
```

Sample Request - Cancellation

```
{
  "rfqNumber": "R23062400000001",
  "ngId": "N23062400000002",
  "requestType": "C",
  "cancReason": "SHRT",
  "proposerRemarks": null
}
```

Response JSON

Map containing following fields

| Field | Type | Mandatory | Description |
|------------------|----------------|-----------|---|
| id | Number | Yes | Unique ID assigned to amendment request |
| rfqNumber | String(15) | Yes | Same as input |
| ngId | String(15) | Yes | Same as input |
| requestType | String(1) | Yes | Same as input |
| date | Date | Yes | RFQ Date |
| tradeNumber | String(15) | Yes | Trade/Deal number |
| isin | String(12) | Yes | ISIN |
| description | String(200) | Yes | Issue Description. |
| buyerAeCode | String(30) | Yes | Buyer Participant Code |
| buyerClientCode | String(30) | Yes | Buyer Client Code |
| sellerAeCode | String(30) | Yes | Seller Participant Code |
| sellerClientCode | String(30) | Yes | Seller Client Code |
| value | Decimal(10,10) | Yes | Trade value in crores. |
| quantity | Number | Yes | Trade quantity |
| yieldType | String(3) | Yes | Old Yield Type |
| yield | Decimal(3,4) | Yes | Yield |
| price | Decimal(3,4) | Yes | Price |
| accruedInterest | Decimal(15,2) | Yes | Old Accrued Interest |

| | | | |
|--------------------|-----------------------------|-------------|--|
| consideration | Decimal(15,2) | Yes | Old Consideration |
| settlementType | Number | Yes | Old Settlement Type |
| settlementDate | Date | Yes | Old Settlement Date Format : DD-MMM-YYYY |
| modYieldType | String(3) | Conditional | Same as input |
| modAccruedInterest | Decimal(15,2) | Conditional | Same as input |
| modConsideration | Decimal(15,2) | Conditional | Mandatory only if requestType=M. Ignored otherwise. |
| modSettlementType | Number | Conditional | Same as input |
| modSettlementDate | Date | Conditional | Mandatory only if requestType=M. Ignored otherwise. Format : DD-MMM-YYYY |
| modReason | String(10) | Conditional | Same as input |
| cancReason | String(10) | Conditional | Same as input |
| proposerAeCode | String(30) | Yes | Proposer Participant/Client Code |
| proposerTime | Time | Yes | Amendment propose time Format HH24:MM:SS |
| proposerRemarks | String(200) | No | Proposer Remarks |
| counterAeCode | String(30) | Yes | Counter Participant/Client Code |
| counterTime | Time | No | Amendment approve / reject time Format HH24:MM:SS |
| counterRemarks | String(200) | No | Counter Remarks |
| approvalStatus | String(2) | Yes | Amendment approval status PP = Proposed CR = Counter Rejected EA = Approved |
| tradeSplits | List<TradeSplit ModResp> | No | Only if provided in input request |

TradeSplitModResp JSON

| Field | Type | Mandatory | Description |
|-----------|---------------|-----------|---|
| trdNo | String(15) | Yes | Trade/Deal number of the split trade |
| accInt | Decimal(15,2) | Yes | Original accrued interest of the split trade. |
| cons | Decimal(15,2) | Yes | Original consideration of the split trade. |
| modAccInt | Decimal(15,2) | Yes | Modified Accrued Interest of the split trade |
| modCons | Decimal(15,2) | Yes | Modified consideration of the split trade |

Sample Response - Modification

```
{
  "id" : 123,
  "rfqNumber" : "R23062400000001",
  "ngId" : "N23062400000002",
  "requestType" : "M",
  "date" : "24-Jun-2023",
  "tradeNumber" : "230624990000002",
  "isin" : "INE020B08BH6",
```

```

    "description" : "RURAL ELECTRIFICATION CORPORATION LIMITED SERIES
169 8.37 BD 07DC28 FVRS10LAC",
    "buyerAeCode" : "DFHI",
    "buyerClientCode" : "DFHI",
    "sellerAeCode" : "INDBANK",
    "sellerClientCode" : "INDBANK",
    "value" : 1.00,
    "quantity" : 10,
    "yieldType" : "YTM",
    "yield" : 5.75,
    "price" : 103.455,
    "accruedInterest" : 12345.50,
    "consideration" : 10357845.50,
    "settlementType" : 0,
    "settlementDate" : "24-Jun-2023",
    "modYieldType" : "YTM",
    "modAccruedInterest" : 12345.67,
    "modConsideration" : 10357845.67,
    "modSettlementType" : 1,
    "modSettlementDate" : "26-Jun-2023",
    "modReason" : "SETTYP",
    "cancReason" : null,
    "proposerAeCode" : "DFHI",
    "proposerTime" : "15:55:45",
    "proposerRemarks" : null,
    "counterAeCode" : "INDBANK",
    "counterTime" : null,
    "counterRemarks" : null,
    "approvalStatus" : "PP"
}

```

Sample Response - Cancellation

```

{
    "id" : 126,
    "rfqNumber" : "R23062400000001",
    "ngId" : "N23062400000002",
    "requestType" : "C",
    "date" : "24-Jun-2023",
    "tradeNumber" : "230624990000002",
    "isin" : "INE020B08BH6",
    "description" : "RURAL ELECTRIFICATION CORPORATION LIMITED SERIES
169 8.37 BD 07DC28 FVRS10LAC",
    "buyerAeCode" : "DFHI",
    "buyerClientCode" : "DFHI",
    "sellerAeCode" : "INDBANK",
    "sellerClientCode" : "INDBANK",
    "value" : 1.00,
    "quantity" : 10,
    "yieldType" : "YTM",
    "yield" : 5.75,
    "price" : 103.455,
    "accruedInterest" : 12345.50,
    "consideration" : 10357845.50,
    "settlementType" : 0,
    "settlementDate" : "24-Jun-2023",
    "cancReason" : "SHRT",
    "proposerAeCode" : "DFHI",
    "proposerTime" : "15:55:45",
    "proposerRemarks" : null,
    "counterAeCode" : "INDBANK",
    "counterTime" : null,
}

```

```

"counterRemarks" : null,
"approvalStatus" : "PP"
}

```

POST /rest/v1/dealamend/all

This API allows user to query deal amendments made on deals. The API can be invoked by either participants and/or institutional clients in case of brokered deals.

| | |
|-----------------|---------------------------------|
| Method | POST |
| Url | <baseurl>/rest/v1/dealamend/all |
| Request | JSON |
| Response | JSON |

Request JSON

Map containing following fields as filters

| Field | Type | Mandatory | Description |
|--------------|------------|-----------|--|
| id | Number | No | Unique ID assigned to amendment request |
| rfqNumber | String(15) | No | RFQ Number |
| ngId | String(15) | No | Negotiation Id |
| requestType | String(1) | No | Request Type M = Modification C = Cancellation |
| filtFromDate | Date | Yes | From RFQ Date |
| filtToDate | Date | Yes | To RFQ Date |

Sample Request

```

{
  "filtFromDate": "23-Jun-2023",
  "filtToDate": "23-Jun-2023"
}

```

Response JSON

List of Map with each map representing a deal amendment request. The structure of this map is similar to the Response JSON of API POST /rest/v1/dealamend/modifycancel

Sample Response

```

[
  {
    "id" : 123,
    "rfqNumber" : "R23062400000001",
    "ngId" : "N23062400000002",
    "requestType" : "M",
    "date" : "24-Jun-2023",
    "tradeNumber" : "230624990000002",
    "isin" : "INE020B08BH6",
    "description" : "RURAL ELECTRIFICATION CORPORATION LIMITED  
SERIES 169 8.37 BD 07DC28 FVRS10LAC",
    "buyerAeCode" : "DFHI",
    "buyerClientCode" : "DFHI",
    "sellerAeCode" : "INDBANK",
    "sellerClientCode" : "INDBANK",
    "value" : 1.00,
    "quantity" : 10,
  }
]

```

```

    "yieldType" : "YTM",
    "yield" : 5.75,
    "price" : 103.455,
    "accruedInterest" : 12345.50,
    "consideration" : 10357845.50,
    "settlementType" : 0,
    "settlementDate" : "24-Jun-2023",
    "modYieldType" : "YTM",
    "modAccruedInterest" : 12345.67,
    "modConsideration" : 10357845.67,
    "modSettlementType" : 1,
    "modSettlementDate" : "26-Jun-2023",
    "modReason" : "SETTYP",
    "cancReason" : null,
    "proposerAeCode" : "DFHI",
    "proposerTime" : "15:55:45",
    "proposerRemarks" : null,
    "counterAeCode" : "INDBANK",
    "counterTime" : null,
    "counterRemarks" : null,
    "approvalStatus" : "PP"
  }
]

```

POST /rest/v1/dealamend/updatestatus

This API allows user to approve or reject deal amendment requests made by counter party.

| | |
|-----------------|--|
| Method | POST |
| Url | <baseurl>/rest/v1/dealamend/updatestatus |
| Request | JSON |
| Response | JSON |

Request JSON

Map containing following fields as filters

| Field | Type | Mandatory | Description |
|----------------|-------------|-----------|--|
| id | Number | Yes | Unique ID assigned to amendment request |
| approvalStatus | String(2) | Yes | Approval status CR = Reject EA = Approve |
| counterRemarks | String(200) | No | Counter Remarks |

Sample Request

```

{
  "id": 123,
  "approvalStatus": "EA",
  "counterRemarks": null
}

```

Response JSON

Map with fields similar to the Response JSON of API POST /rest/v1/dealamend/modifycancel

Sample Response

```

{
  "id" : 123,

```

```
"rfqNumber" : "R23062400000001",
"ngId" : "N23062400000002",
"requestType" : "M",
"date" : "24-Jun-2023",
"tradeNumber" : "230624990000002",
"isin" : "INE020B08BH6",
"description" : "RURAL ELECTRIFICATION CORPORATION LIMITED SERIES
169 8.37 BD 07DC28 FVRS10LAC",
"buyerAeCode" : "DFHI",
"buyerClientCode" : "DFHI",
"sellerAeCode" : "INDBANK",
"sellerClientCode" : "INDBANK",
"value" : 1.00,
"quantity" : 10,
"yieldType" : "YTM",
"yield" : 5.75,
"price" : 103.455,
"accruedInterest" : 12345.50,
"consideration" : 10357845.50,
"settlementType" : 0,
"settlementDate" : "24-Jun-2023",
"modYieldType" : "YTM",
"modAccruedInterest" : 12345.67,
"modConsideration" : 10357845.67,
"modSettlementType" : 1,
"modSettlementDate" : "26-Jun-2023",
"modReason" : "SETTYP",
"cancReason" : null,
"proposerAeCode" : "DFHI",
"proposerTime" : "15:55:45",
"proposerRemarks" : null,
"counterAeCode" : "INDBANK",
"counterTime" : null,
"counterRemarks" : null,
"approvalStatus" : "EA"
}
```

Other API

GET /rest/v1/participants/all

This API returns list of participants in the system.

| | |
|-----------------|--|
| Method | GET |
| Url | <baseurl>/rest/v1/participants/all |
| Response | JSON |

Response JSON

List of Map containing following fields. Each Map element represents a participant.

| Field | Type | Mandatory | Description |
|-------|-------------|-----------|------------------|
| code | String(30) | Yes | Participant code |
| name | String(250) | Yes | Participant name |

Sample Success Response

```
[
  {
    "code": "MF001",
    "name": "Mutual fund no 1"
  },
  {
    "code": "MF002",
    "name": "Mutual fund no 1"
  },
  {
    "code": "PART001",
    "name": "Participant no 1"
  }
]
```

POST /rest/v1/isins/all

This API returns list of not matured bonds (maturity date >= current date) in the system for input filter conditions.

| | |
|-----------------|---|
| Method | POST |
| Url | <baseurl>/rest/v1/isins/all |
| Request | JSON |
| Response | JSON |

Request JSON

Map containing filter

| Field | Type | Mandatory | Description |
|-------------------|-------------|-----------|--|
| symbol | String(12) | No | ISIN |
| description | String(200) | No | Issue Description. Wildcard search. |
| issuer | String(100) | No | Issuer Name. Wildcard search |
| filtIssueCategory | String(2) | No | Filter for issue category CB = Bond CP = CP CD = CD SD = SD GS = Gsec, Tbill & SL |

| | | | |
|--------------|------------|----|---|
| filtMaturity | String(10) | No | Filter for issue maturity in years from current date 0^1 = Less than 1 year 1^3 = 1 to 3 years 3^5 = 3 to 5 years 5^7 = 5 to 7 years 7^10 = 7 to 10 years 10^ = greater than 10 years |
| filtCoupon | String(10) | No | Filter for coupon rate range 0^3 = 0 to 3% 3^5 = 3 to 5% 5^6 = 5 to 6% 6^7 = 6 to 7% 7^8 = 7 to 8% 8^9 = 8 to 9% 9^10 = 9 to 10% 10^ = greater than 10% |

Sample Request

```
{
  "description": "NABARD",
  "filtMaturity": "5^7"
}
```

Response JSON

List of Map. Each Map element represents an issue record and contains following fields.

| Field | Type | Mandatory | Description |
|---------------|---------------|-----------|--|
| symbol | String(12) | Yes | ISIN |
| description | String(200) | Yes | Issue Description. Wildcard search. |
| issuer | String(100) | Yes | Issuer Name. Wildcard search |
| maturityDate | Date | Yes | Maturity Date |
| couponRate | Decimal(3,4) | Yes | Coupon Rate |
| faceValue | Decimal(15,2) | Yes | Face value |
| type | String(2) | Yes | Issue Type |
| issueCategory | String(2) | Yes | Filter for issue category CB = Bond CP = CP CD = CD SD = SD GS = Gsec, Tbill & SL |
| listed | String(1) | Yes | Y = Yes N = No |

Sample Response

```
[
  {
    "symbol" : "INE123456789",
    "description" : "ABC",
    "issuer" : "XYZ issuer",
    "maturityDate" : "31-Dec-2024",
    "couponRate" : 5.50,
    "faceValue" : 100000,
    "issueCategory" : "CB",
  }
]
```

```

        "listed" : "Y"
    },
    {
        "symbol" : "INE123456780",
        "description" : "ABC ef",
        "issuer" : "XYZ issuer",
        "maturityDate" : "31-Dec-2025",
        "couponRate" : 5.55,
        "faceValue" : 100000,
        "issueCategory" : "CB",
        "listed" : "Y"
    }
]

```

POST /rest/v1/rfqmaster/calcprice

This API calculates price from yield

| | |
|-----------------|---------------------------------------|
| Method | POST |
| Url | <baseurl>/rest/v1/rfqmaster/calcprice |
| Request | JSON |
| Response | JSON |

Request JSON

Map containing filter

| Field | Type | Mandatory | Description |
|----------------|--------------|-----------|---|
| isin | String(12) | Yes | ISIN |
| settlementDate | Date | Yes | Settlement Date |
| yieldType | String(3) | Yes | YTM / YTP / YTC |
| yield | Decimal(3,4) | Yes | Yield |
| aiDcc | Number | Yes | Accrued Interest Day Count Convention. 1 = Actual/Actual 2 = 30/360 - European 3 = 30/360 - American 4 = Actual/365 |

Sample Request

```

{
    "isin":"INE028A08232",
    "settlementDate":"10-Dec-2022",
    "yieldType":"YTP",
    "yield":4.55,
    "aiDcc":1
}

```

Response JSON

List of Map. Each Map element represents an issue record and contains following fields.

| Field | Type | Mandatory | Description |
|-----------------|---------------|-----------|---|
| calcMethod | String(1) | Yes | Yield / Price calculation method M = Money Market O = Other |
| accruedInterest | Decimal(15,2) | Yes | Accrued Interest |
| price | Decimal(3,4) | Yes | Price |

| | | | |
|-------------|------|-------------|-----------------------------|
| putCallDate | Date | Conditional | Only for yield type YTP/YTC |
|-------------|------|-------------|-----------------------------|

Sample Response

```
{
  "calcMethod": "M",
  "putCallDate": "31-Dec-2027",
  "price": 115.3200,
  "accruedInterest": 1234.56
}
```

POST /rest/v1/rfqmaster/calcyield

This API calculates price from yield

| | |
|-----------------|---|
| Method | POST |
| Url | <baseurl>/rest/v1/rfqmaster/calcyield |
| Request | JSON |
| Response | JSON |

Request JSON

Map containing filter

| Field | Type | Mandatory | Description |
|----------------|--------------|-----------|---|
| isin | String(12) | Yes | ISIN |
| settlementDate | Date | Yes | Settlement Date |
| yieldType | String(3) | Yes | YTM / YTP / YTC |
| price | Decimal(3,4) | Yes | Price |
| aiDcc | Number | Yes | Accrued Interest Day Count Convention. 1 = Actual/Actual 2 = 30/360 - European 3 = 30/360 - American 4 = Actual/365 |

Sample Request

```
{
  "isin": "INE028A08232",
  "settlementDate": "10-Dec-2022",
  "yieldType": "YTP",
  "price": 103.4565,
  "aiDcc": 1
}
```

Response JSON

List of Map. Each Map element represents an issue record and contains following fields.

| Field | Type | Mandatory | Description |
|-----------------|---------------|-------------|---|
| calcMethod | String(1) | Yes | Yield / Price calculation method M = Money Market O = Other |
| accruedInterest | Decimal(15,2) | Yes | Accrued Interest |
| yield | Decimal(3,4) | Yes | Yield |
| putCallDate | Date | Conditional | Only for yield type YTP/YTC |

Sample Response

```
{
  "calcMethod": "M",
  "putCallDate": "31-Dec-2027",
  "yield": 6.3200,
  "accruedInterest": 1234.56
}
```

GET /rest/v1/market/timings

This API returns issue type wise bidding timing windows for T0 and T1 settlement types

| | |
|-----------------|--|
| Method | GET |
| Url | <baseurl>/rest/v1/market/timings |
| Response | JSON |

Response JSON

List of Map containing following fields. Each Map element represents a issue type timing record.

| Field | Type | Mandatory | Description |
|---------------|-----------|-----------|--|
| type | String(2) | Yes | Issue Type |
| starttimeT0 | Number | Yes | T0 Start time of day. Measured as millis from mid night. |
| starttimeT1 | Number | Yes | T1 Start time of day. |
| yieldcutoffT0 | Number | Yes | RFQ Initiation and negotiation cutoff time for T0. |
| yieldcutoffT1 | Number | Yes | RFQ Initiation and negotiation cutoff time for T1. |
| pricecutoffT0 | Number | Yes | Consideration confirmation cutoff time for T0. |
| pricecutoffT1 | Number | Yes | Consideration confirmation cutoff time for T0. |

Sample Success Response

```
[
  {
    "starttimeT1": 36000000,
    "type": "CD",
    "starttimeT0": 36000000,
    "pricecutoffT0": 77400000,
    "pricecutoffT1": 77400000,
    "yieldcutoffT0": 77400000,
    "yieldcutoffT1": 77400000
  },
  {
    "starttimeT1": 36000000,
    "type": "CP",
    "starttimeT0": 36000000,
    "pricecutoffT0": 77400000,
    "pricecutoffT1": 77400000,
    "yieldcutoffT0": 77400000,
    "yieldcutoffT1": 77400000
  },
  {
    "starttimeT1": 32400000,
    "type": "DEFAULT",
    "starttimeT0": 32400000,
    "pricecutoffT0": 80100000,
    "pricecutoffT1": 86100000,
  }
]
```

```

    "yieldcutoffT0": 79200000,
    "yieldcutoffT1": 85800000
  }
]

```

POST /rest/v1/debar/all

This API returns list of broker clients that have been debarred by the exchange. This API is available only for participants that have registered as brokers (RFQ / OBPP).

| | |
|-----------------|---|
| Method | POST |
| Url | <baseurl>/rest/v1/debar/all |
| Request | JSON |
| Response | JSON |

Request JSON

Map containing filter

| Field | Type | Mandatory | Description |
|--------------|------------|-----------|---|
| pan | String(10) | No | PAN |
| filtFromDate | Date | Yes | Debarment period from date. Format : dd-MMM-yyyy |
| filtToDate | Date | Yes | Debarment period to date. Format : dd-MMM-yyyy |

Sample Request

```

{
  "pan": null,
  "filtFromDate": "01-Apr-2023",
  "filtToDate": "30-Apr-2023"
}

```

Response JSON

List of Map. Each Map element represents a client debarment.

| Field | Type | Mandatory | Description |
|---------|------------|-----------|--|
| pan | String(10) | No | PAN |
| name | String(30) | No | Participant Name |
| endDate | Date | Yes | Debarment End Date Format : dd-MMM-yyyy |

Sample Response

```

[
  {
    "name": "Some Name",
    "pan": "PANNO3312X",
    "endDate": "17-May-2023"
  },
  {
    "name": "Aniket",
    "pan": "ANKTO1162X",
    "endDate": "19-May-2023"
  }
]

```

Callbacks API

POST /v1/notification

This API is to be implemented by 3rd party application. Exchange system will notify RFQ and negotiation data by invoking POST method on the URL. The URL should be accessible over internet and should be on HTTPS.

| | |
|-----------------|---------------------------------|
| Method | POST |
| Url | <clientbaseurl>/v1/notification |
| Request | JSON |
| Response | JSON |

Authentication

3rd party applications wanting notifications using callback APIs should provide an https base url for the call back api. A signature would be computed by computing HmacSHA256 of the Request JSON payload and then encoding using HEX . This signature will be added in the header with key as "token".

Request JSON

Map containing rfq / negotiation / deal amend records data records.

| Field | Type | Mandatory | Description |
|-----------------|-------------------------------------|-----------|--|
| rfqList | List< RFQ Master > | No | List of RFQ master records. Structure of each map is same as Response JSON in POST /rest/v1/rfqmaster/add/isin |
| negotiationList | List< Negotiation > | No | List of negotiation records. Structure of each map is same as Response JSON of POST /rest/v1/negotiation/add |
| dealAmendList | List<DealAmendment> | No | List of deal amendment records. Structure of each map is same as Response JSON of API POST /rest/v1/dealamend/modifycancel |

Sample Request

```
{
  "rfqList": [
    {
      "segment" : "R",
      "number" : "R210204000000002",
      "isin" : "INE123456789",
      "buySell" : "B",
      "quoteType" : "B",
      "settlementType" : 1,
      "value" : 10.50,
      "quantity" : 105,
      "yieldType" : "YTM",
      "yield" : 5.67,
      "calcMethod" : "M",
      "price" : 103.33,
      "gtdFlag" : null,
    }
  ]
}
```

```
"endTime" : "15:45",
"quoteNegotiable" : "Y",
"valueNegotiable" : "Y",
"minFillValue" : 1.00,
"valueStepSize" : 0.5,
"dealType" : "D",
"anonymous" : "Y",
"access" : 2,
"groupList" : ["3"],
"participantList" : ["PART001"],
"category" : "NBFC",
"rating" : "AA",
"remarks" : "Test remarks",
"status" : "P",
"participantCode" : "PART001",
"userLogin" : "USER0091",
"tradedValue" : 0,
"confirmedValue" : 0
}
],
"negotiationList": [
{
  "ngRfqNumber" : "R21051100000002",
  "id" : "N21051100000001",
  "date" : "07-May-2021",
  "isin" : "INE123456789",
  "buySell" : "S",
  "initSettlementType" : 0,
  "initSettlementDate" : "07-May-2021",
  "initClientCode" : "PART001",
  "initAeCode" : "PART001",
  "initValue" : 10,
  "initQuantity" : 100,
  "initYieldType" : "YTM",
  "initYield" : 5.567,
  "initCalcMethod" : "M",
  "initPrice" : 103.125,
  "initQuoteTime" : "10:20:17",
  "initGtdFlag" : "Y",
  "initEndTime" : null,
  "initRemarks" : null,
  "initLoginId" : null,
  "respSettlementType" : 0,
  "respSettlementDate" : "07-May-2021",
  "respClientCode" : "MF001",
  "respAeCode" : "MF001",
  "respValue" : 10,
  "respQuantity" : 100,
  "respYieldType" : "YTM",
  "respYield" : 5.561,
  "respCalcMethod" : "M",
  "respPrice" : 103.131,
  "respPutCallDate" : null,
  "respQuoteTime" : "10:12:56",
  "respGtdFlag" : "Y",
  "respEndTime" : null,
  "respRemarks" : null,
  "respLoginId" : "USER001",
  "status" : "N",
  "lastActivityTimestamp" : "09-Dec-2022 21:03:33"
```

```
}  
  ]  
}
```

Response Success JSON

Map containing following fields.

| Field | Type | Mandatory | Description |
|-------|--------|-----------|----------------------------------|
| code | Number | Yes | Always 200 Indicating success |

Sample Response

```
{  
  "code": 200  
}
```

Appendix A - Code List

Ratings

| Code | Description |
|-----------|-------------|
| AAA | AAA |
| AA+ | AA+ |
| AA | AA |
| AA- | AA- |
| A+ | A+ |
| A | A |
| A- | A- |
| BBB+ | BBB+ |
| BBB | BBB |
| BBB- | BBB- |
| BB+ | BB+ |
| BB | BB |
| BB- | BB- |
| B+ | B+ |
| B | B |
| B- | B- |
| C+ | C+ |
| C | C |
| C- | C- |
| UNRATED | UNRATED |
| OTHER | OTHER |
| SOVEREIGN | SOVEREIGN |

Sectors

| Code | Description |
|-------------------------------|-------------------------------|
| NBFC | NBFC |
| HFC | HFC |
| PSU Bank | PSU Bank |
| Private Bank | Private Bank |
| PSU | PSU |
| Manufacturing | Manufacturing |
| Sovereign | Sovereign |
| Public Financial Institutions | Public Financial Institutions |
| Others | Others |

Modification Reasons

| Code | Description |
|---------|------------------------------------|
| SETTYP | Settlement type |
| ACCRINT | Accrued interest and consideration |
| YLDTYP | Yield Type |

Cancellation Reasons

| Code | Description |
|-------------|-----------------------|
| FATFNGR | Fat finger error |
| CSHFLO | Cash flow mismatch |
| SHRT | Short sell |
| ILLIQ | Liquidity constraints |
| SHTPRD | Shut period |

*** End of Document ***