



Integrated Design Document for Sharing Master Related Data through API's

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1 Intended Audience

This document is intended for use by External System Officials and their IT Team, who are required to integrate with PFMS using APIs/Web service and fetch master data related to SNA enable State Linked Schemes or Centre Scheme, Centrally Sponsored Schemes (CSS) other State linked Schemes.

2 Abbreviations

GLOSSARY OF IMPORTANT TERMS unless there is something averse in the subject or context, the terms defined in this section are used in this document in the sense here under explained:

API	Application Programming Interface
CGA	Controller General of Accounts
Ext. Sys	External System
HTTPS	Hypertext transfer protocol secure
IP	Internet Protocol
JSON	Java Scripts Object Notation
PFMS	Public Financial Management System
SNA	Single Nodal Account
ZBA	Zero Balance Account

3 Introduction to External system through REAT integration

There are many external systems integrated with PFMS and they require master data (one time / incremental) to be shared with them. This document provides the technical knowhow to external system for capturing the master data through API's from PFMS.

In order to get data from PFMS, the external system should have the Scheme code of the PFMS Scheme with which they are going to onboard in their portal/system. This Scheme code will be provided by the Program Division or State Scheme Manager as per the scheme type.

4 Scope

1. PFMS will provide a API / web service to External systems to share the following details
 - Scheme Hierarchy API
 - Scheme Components API
 - Agency Mapping API
 - Bank Details API
 - IFSCCODE
 - Bank Branch master API
 - IFSCCODE
 - Duration (From /To date)
 - LGD API
 - State LGD API
 - District LGD API

- Block LGD API
- Panchayat LGD API
- Agency API-Agency unique code & account details
- DBT Configuration Details Web service

Note: Deduction Master Detail are attached in Annexure

2. The Scheme Hierarchy API will provide the Schemes Name, Scheme Code, Hierarchy Name, Levels Name, Level Order that are created in PFMS during a particular duration
3. The Scheme Component API will provide the Scheme Component ID and Component Description for a particular Scheme
4. The Agency Mapping API will provide the Agencies that are mapped for a Scheme at a particularly hierarchy Level
5. The Bank Branch master would provide Bank Branch Details to external System based upon the IFSCCODE, Duration. The External System can also fetch Bank Details on IFSCCODE basis
6. The LGD API provides the Local Government Directory Code for District/Block/Panchayat as per PFMS
7. The Agency Data service will provide the Scheme Code, Agency Code, Agency Bank Accounts Enrolled that are mapped in PFMS for a particular Scheme
8. The DBT Configuration Details would provide the Agency Details, Beneficiary Type ID, DBT Mission Code and Payment Purpose ID for a Scheme and Agency Unique Code
9. The External System map above information in their database and will update PFMS's Unique Agency code for each agency in their database.
10. While reporting expenditure data with PFMS through REAT interface, the external System will provide this agency unique code, state scheme code, state linked scheme code back to PFMS with other information as already being reported through expenditure xml file.

5 Security

The channel to exchange request and response messages should be secured to maintain and ensure confidentiality. The security shall be implemented at Basic Security levels.

Basic Security

Basic level security is applied at access level. Basic level security includes following:

- Authentication
- IP Validation
- HTTPS

a. Authentication

For each request message, username and password would be sent via JSON /XML request. The JSON /XML request messages would be served only if username, password sent are verified by the server. Password should be sent in encrypted format using SHA256 algorithm.

b. IP Validation

At the time of configuration, PFMS would have to white list the external system public IP on their firewall, so the web services of PFMS would be called by the external system server only.

Similarly, external system also would have to white list the public IP of PFMS to call and receive the web service requests and responses respectively.

Additionally, web services at each party must pick up the IP address from the response sending source and verify with configured/white listed IP address.

c. HTTPS

The web services to be hosted by each party would be 'HTTPS'. The 'HTTPS' type web service would filter out middle man from pipeline while data transportation between external system and PFMS.

6 Common Business Logic

- The External System can pull the data on demand basis.
- Service request will be accepted only after office hours i.e. 9pm to 4am.
- The Service will be available using user credentials only and the user will be linked to a particular state or for a particular external system and the user will be able to fetch data of the schemes of a particular state or schemes mapped to a particular external system
- External System can request for data for one week or less, or 5K records maximum in each request.
- Service will not be available last 5 days of each month
- External System need to Share their System IP address that will be white listed on PFMS, the PFMS Domain team would be approving the IP white listing request and User credentials
- The User ID for accessing various API will be the same and the password will be shared through SMS.

7 Scheme Hierarchy API

External system can invoke Scheme Hierarchy API to Scheme Hierarchy details from PFMS. Details can be get through Scheme code and State LGD Code

Through Scheme code

Input parameter for this method will be scheme code and output will be PFMS Scheme Name, Scheme Code, Is SNA, Status, Start Year, End Year, Scheme Type, Central Scheme, State, Create date, API Response Status

7.1 Input Parameter

<https://api.pfms.gov.in/api/SchemeDetailAPI/GetSchemeHierarchyDetail>

Input Parameters

SchemeCode VARCHAR(25)

StateLGDCode VARCHAR(10)

7.1.1 JSON Response

Response(JSON)

```
[
{
  "HierarchyName": "Central",
  "HierarchyLocation": "Central Government",
  "HierarchyLevelOrder": "0",
  "APIResponseStatus": "success"
},
{
  "HierarchyName": "Panchayat Level",
  "HierarchyLocation": "Panchayat",
  "HierarchyLevelOrder": "32",
  "APIResponseStatus": "success"
},
]
```


]

7.1.2 Field level Description of Response Message.

Field	Data Type	Description
HierarchyName	Varchar (200)	Hierarchy Name
HierarchyLocation	Varchar(50)	Hierarchy Location
HierarchyLevelOrder	Varchar(50)	Hierarchy Level Order
APIResponsestatus	Varchar Mandatory Max 100	This tag will contain API Response status for external system request.

8 Scheme Component API

External system can invoke Scheme Component API to get Scheme Component ID and Components Description from PFMS. Details can be fetched by Scheme code and Financial Year.

8.1 Through Scheme code

Input parameter for this method will be scheme code and output will be Scheme Name, Scheme Code, Scheme Component Name and Scheme Component Code and API Response Status

<https://api.pfms.gov.in/api/SchemeDetailAPI/GetComponentDetail>

Input Parameters :

Request Header

Content-Type application/x-www-form-urlencoded

userID #UserName

pwd #pwd

Request Body(Input Parameters)

Input Parameters

SchemeCode VARCHAR(25)

FinancialYear VARCHAR(10)

8.1.1 JSON Response

```
[
{
  "SchemeCode": "UP139",
  "SchemeName": "Central Finance Commission, UP",
  "ComponentCode": "01",
  "ComponentName": "Water Supply",
  "APIResponseStatus": "success"
},
{
  "SchemeCode": "UP139",
  "SchemeName": "Central Finance Commission, UP",
  "ComponentCode": "01",
  "ComponentName": "Sanitation including septage Management",
  "APIResponseStatus": "success"
},
{
  "SchemeCode": "UP139",
  "SchemeName": "Central Finance Commission, UP",
```

```

    "ComponentCode": "03",
    "ComponentName": "Sewage Solid Waste Management",
    "APIResponseStatus": "success"
  }
]

```

8.1.2 Field level Description of Response Message

Field	Data Type	Description
SchemeCode	Varchar(25)	Scheme Code
SchemeName	Varchar (200)	Scheme Name
ComponentCode	Varchar(50)	Component Code
ComponentName	Varchar (200)	Component Name
APIResponsestatus	Varchar Mandatory Max 100	This tag will contain API Response status for external system request.

9 Agency Mapping API

The Agency Mapping API will provide the Agencies that are mapped for a Scheme at a particular hierarchy Level

9.1 Input Parameter

<https://api.pfms.gov.in/api/SchemeDetailAPI/GetAgencyMappingDetail>

Input parameters:

SchemeCode VARCHAR(25)

9.1.1 JSON Response

```

Response Format(JSON)
[
{
  "ParentAgencyCode": "UGC",
  "ParentAgencyName": "University Grants Commission",
  "SchemeHierarchyLevel": "State Level",
  "ChildAgencyCode": "MLWG00003402",
  "ChildAgencyName": "North Eastern Hill University Tura Campus",
  "APIResponseStatus": "success"
},
{
  "ParentAgencyCode": "UGC",
  "ParentAgencyName": "University Grants Commission",
  "SchemeHierarchyLevel": "State Level",
  "ChildAgencyCode": "VBS",
  "ChildAgencyName": "Visva-Bharati University, Shantiniketan, West Bengal",
  "APIResponseStatus": "success"
}
]

```

9.1.2 Field level Description of Request Message

Field	Data Type	Description
ParentAgencyCode	nvarchar(100)	Parent Agency Unique Code
ParentAgencyName	nvarchar(200)	Parent Agency Name
SchemeHierarchyLevel	nvarchar(100)	Scheme Hierarchy level
ChildAgencyCode	nvarchar(100)	Child Agency Code
ChildAgencyName	nvarchar(200)	Child Agency Name

10 Bank Branch Master API

Initially PFMS will shall the full Bank Branch master through SFTP and subsequent changes in the bank branches will be intimated through the Bank Branch API.

External system can get bank details from PFMS. No any input parameter will accepted by this method output of this method will be all registered bank details as per PFMS.

10.1 Input Parameter

<https://api.pfms.gov.in/api/BankAPI/GetBankDetail>

Input Parameters :

Request Header

Content-Type application/x-www-form-urlencoded

userID #UserName

pwd #pwd

10.1.1 JSON Response

Response(JSON)

```
[
  [
    {
      "BankId": 2837,
      "BankName": "24-PARGANAS DIST.COOP.LAND DEV.BANK LTD.",
      "BankIINNumber": "",
      "BankStatus": "Active",
      "APIResponseStatus": "success"
    },
    {
      "BankId": 543,
      "BankName": "510-ARMY BASE WORKSHOP CR.COOP.BK.MEERUT",
      "BankIINNumber": "990134",
      "BankStatus": "Active",
      "APIResponseStatus": "success"
    },
    {
      "BankId": 1597,
      "BankName": "A'NAGAR Z.PR.SHIKSHAK SAH.BK.AHMEDNAGAR",
      "BankIINNumber": "",
      "BankStatus": "Active",
      "APIResponseStatus": "success"
    }
  ]
]
```

10.2 Bank Branch API

External system can invoke this API to take bank branch details from PFMS. Details can be get by two way through IFSCCODE and through the start date and end date

10.2.1 Through the IFSC code

Input parameter for this method will be IFSC code and output will be PFMS bank name, branch code, IFSC code, Branch address , State, District, Bank status, Branch status, Create date, API Response Status

10.2.1.1 Input Parameter

<https://api.pfms.gov.in/api/BankAPI/GetBankBranchDetail>

Input Parameters

Request Header

Content-Type application/x-www-form-urlencoded

userID #UserName

pwd #pwd

Request Body(Input Parameters)

IFSCCode

Either IFSCCode or (StartDate , EndDate) any one is required.

10.2.1.2 JSON response by IFSCCode

Response Format(JSON)

```
[
{
"BranchId": 95079,
"BankId": 315,
"BankName": "PUNJAB GRAMIN BANK",
"BranchCode": "AMBALA JATTAN-",
"IFSCCode": "PUNBOPGB003",
"BranchAddress": "AMBALA JATTAN,TEH.HOSHIARPUR HOSHIARPUR PUNJAB ",
"State": "PUNJAB",
"District": "",
"BankStatus": "Active",
"BranchStatus": "Active",
"CreatedDate": "2014-03-01T11:29:37.71",
"APIResponseStatus": "success"
},
{
"BranchId": 95080,
"BankId": 315,
"BankName": "PUNJAB GRAMIN BANK",
"BranchCode": "DOOM CHHERI-",
"IFSCCode": "PUNBOPGB003",
"BranchAddress": "DOOM CHHERI,TEH.ROPAR RUPNAGAR PUNJAB ",
"State": "PUNJAB",
"District": "",
"BankStatus": "Active",
```

```
"BranchStatus": "Active",
"CreateDate": "2014-03-01T11:29:37.71",
"APIResponseStatus": "success"
}
]
```

10.3 Through start date and end date

External system can invoke this method to take bank branch details as per PFMS through the start date and end date. Input parameter for this method will be start date and end date output parameter for this process will be name, branch code, IFSC code, Branch address , State, District, Bank status, Branch status, Create date, API Response Status

10.3.1 Input Parameter

<https://api.pfms.gov.in/api/BankAPI/GetBankBranchDetail>

Input Parameters

Request Header

Content-Type application/x-www-form-urlencoded

userID #UserName

pwd #pwd

Request Body(Input Parameters)

StartDate

EndDate

Either IFSCCode or (StartDate , EndDate) any one is required.

10.3.2 JSON Response by date

Response Format(JSON)

```
[
{
"BranchId": 3043605,
"BankId": 315,
"BankName": "PUNJAB GRAMIN BANK",
"BranchCode": "Allowal-",
"IFSCCode": "PUNBOPGB003",
"BranchAddress": "Vpo Allowal,Distt Patiala,Punjab,147001 Allowal Punjab 147001",
"State": "Punjab",
"District": "Patiala",
"BankStatus": "Active",
"BranchStatus": "Active",
"CreateDate": "2019-03-29T19:02:40.4",
"APIResponseStatus": "success"
},
{
"BranchId": 3043606,
"BankId": 315,
"BankName": "PUNJAB GRAMIN BANK",
"BranchCode": "Andana-",
"IFSCCode": "PUNBOPGB003",
"BranchAddress": "Andana, Via Khanauri Distt. Sangrur,,Punjab,148027 Andana Punjab 148027",
"State": "Punjab",
```

```

"District": "Sangrur",
"BankStatus": "Active",
"BranchStatus": "Active",
"CreateDate": "2019-03-29T19:02:40.417",
"APIResponseStatus": "success"
},
{
"BranchId": 3043607,
"BankId": 315,
"BankName": "PUNJAB GRAMIN BANK",
"BranchCode": "Arno-",
"IFSCCode": "PUNB0PGB003",
"BranchAddress": "Arno, Via Patran, Distt. Patiala, Punjab, 147105 Arno Punjab 147105",
"State": "Punjab",
"District": "Patiala",
"BankStatus": "Active",
"BranchStatus": "Active",
"CreateDate": "2019-03-29T19:02:40.433",
"APIResponseStatus": "success"
}
]

```

10.4 Bank by IFSCCode

External system can invoke this method to take bank branch details as per PFMS through the IFSC code. Input parameter for this method will be IFSC code and output of this method Branch name, branch code, Branch address.

10.4.1 Input Parameters

<https://api.pfms.gov.in/api/BankAPI/GetBankDetailByIFSCCode>

Input Parameters :

Request Header
 Content-Type application/x-www-form-urlencoded
 userID #UserName
 pwd #pwd

Request Body(Input Parameters)
 IFSCCode

10.4.2 JSON response

Response Format(JSON)

```

[
{
"BankName": "THIRUVANANTHAPURAM DIST. CENTRAL CO.BK.",
"BranchCode": "THE THIRUVANANTHAPURAM DISTRICT CO-OPERATIVE BANK LTD-",
"BranchAddress": "ATTINGAL P.O. 695 101 ATTINGAL KERALA ",
"APIResponseStatus": "success"
},

```

```
{
  "BankName": "THIRUVANANTHAPURAM DIST. CENTRAL CO.BK.",
  "BranchCode": "Fort Main-102001",
  "BranchAddress": "Fort Main Branch Fort P.O. Thiruvananthapuram Kerala 695023",
  "APIResponseStatus": "success"
}
```

11 LGD API

The API return state LGD (Local Government Directory) code, District LGD code, Block LGD code and Panchayat LGD code as per PFMS. This is used by External systems to send LGD based data to PFMS.

11.1 State LGD API

External system can invoke this API to receive state LGD data from PFMS.

11.1.1 Input Parameter

<https://api.pfms.gov.in/api/LocationAPI/GetStateLGD>

Input Parameters :

Request Header

Content-Type application/x-www-form-urlencoded

userID #UserName

pwd #pwd

State LGDCode

11.1.2 Field level Description of Request Message

Field	Data Type	Description
UserName	Varchar Mandatory Max 50	Username would be as provided by PFMS. The same username can be used for each request message.
Password	Varchar Mandatory Max 100	PFMS would convey the password to External System. Thereafter, same password would be sent in each request message. Password should be generated as per policy at PFMS.

11.1.3 JSON Response

```

Response(JSON)
[
  {
    "StateLGDCode": "1",
    "StateName": "JAMMU AND KASHMIR",
    "APIResponseStatus": "success"
  },
  {
    "StateLGDCode": "2",
    "StateName": "HIMACHAL PRADESH",
    "APIResponseStatus": "success"
  },
  {
    "StateLGDCode": "3",
    "StateName": "PUNJAB",
    "APIResponseStatus": "success"
  }
]

```

11.1.4 Field level Description of Response Message.

Field	Data Type	Description
StateLGDCode	Varchar Mandatory Max 10	This tag will contain StateLGDCode which is sent by PFMS as response of external system request.
StateName	Nvarchar Mandatory Max 100	This tag will contain State name which is sent by the PFMS as a response of external system request.
APIResponsestatus	Varchar Mandatory Max 100	This tag will contain API Response status for external system request.

11.2 District LGD API

External system can invoke this API to receive district LGD data from PFMS.

11.2.1 Set Input Parameter

<https://api.pfms.gov.in/api/ /LocationAPI/GetStateLGD>

Input Parameters

Request Header
 Content-Type application/x-www-form-urlencoded
 userID #UserName
 pwd #pwd

Request Body(Input Parameters)

StateLGDCode (Optional)

11.2.2 Field level Description of Request Message

Field	Data Type	Description
UserName	Varchar Mandatory Max 50	Username would be as provided by PFMS. The same username can be used for each request message.
Password	Varchar Mandatory Max 100	PFMS would convey the password to External System. Thereafter, same password would be sent in each request message. Password should be generated as per policy at PFMS.
StateLGDCode	Varchar Optional Max 10	This Input parameter is optional. If user does not pass any input then all LGD district data will be returned in response.

11.2.3 JSON Response

Response(JSON)

```
[
  {
    "StateLGDCode": "1",
    "StateName": "JAMMU AND KASHMIR",
    "DistrictLGDCode": "1",
    "DistrictName": "ANANTNAG",
    "APIResponseStatus": "success"
  },
  {
    "StateLGDCode": "1",
    "StateName": "JAMMU AND KASHMIR",
    "DistrictLGDCode": "2",
    "DistrictName": "BUDGAM",
    "APIResponseStatus": "success"
  },
  {
    "StateLGDCode": "1",
    "StateName": "JAMMU AND KASHMIR",
    "DistrictLGDCode": "3",
    "DistrictName": "BARAMULLA",
    "APIResponseStatus": "success"
  }
]
```

11.2.4 Field level Description of Response Message

Field	Data Type	Description
StateLGDCode	Varchar Mandatory Max 10	This field will contain the StateLGD-Code sent by PFMS in the response of an external system request.
StateName	Nvarchar Mandatory Max 100	This field will contain the State Name sent by the PFMS in the response of an external system request.
DistrictLGDCode	Varchar Mandatory Max 10	This field will contain the District LGD Code sent by PFMS in the response of an External system Request.
DistrictName	Nvarchar Mandatory Max 200	This field will contain the district name sent by PFMS in the response of an external system request.
APIResponsestatus	Varchar Mandatory Max 100	This field will contain APIResponse status of external system request.

11.3 BlockLGDAPI

External system can invoke this API to receive Block LGD data from PFMS.

11.3.1 Input Parameter

<https://api.pfms.gov.in/api/LocationAPI/GetBlockLGD>

Input Parameters:

Request Header

Content-type application/X-www-form-urlencoded
userID#userName
pwd#Pwd

Request Body(Input Parameters)

StateLGDCode
DistrictLGDCode

11.3.2 Field level Description of Request Message.

Field	Data Type	Description
UserName	Varchar Mandatory Max 50	Username would be as provided by PFMS. The same username can be used for each request message.
Password	Varchar Mandatory Max 100	PFMS would convey the password to External System Thereafter, same password would be sent in each request message. Password should be generated as per policy at PFMS.
StateLGDCode	Varchar Mandatory Max 10	StateLGDCode Input parameter is mandatory to receive Block LGD data from PFMS.

DistrictLGDCode	Varchar Mandatory Max 10	DistrictLGDCode Input parameter is mandatory to receive Block LGD data from PFMS.
-----------------	--------------------------------	---

11.3.3 JSON Response

Response(JSON)

```
[
  {
    "StateLGDCode": "1",
    "StateName": "JAMMU AND KASHMIR",
    "DistrictLGDCode": "8",
    "DistrictName": "KUPWARA",
    "BlockLGDCode": "83",
    "BlockName": "KALAROOCH",
    "APIResponseStatus": "success"
  },
  {
    "StateLGDCode": "1",
    "StateName": "JAMMU AND KASHMIR",
    "DistrictLGDCode": "8",
    "DistrictName": "KUPWARA",
    "BlockLGDCode": "84",
    "BlockName": "KALAR",
    "APIResponseStatus": "success"
  }
]
```

11.3.4 Field level Description for Response Message

Field	Data Type	Description
StateLGDCode	Varchar Mandatory Max 10	This field will contain the State LGD Code sent by PFMS in the response of an external system query
StateName	Nvarchar Mandatory Max 100	This field will contain the State Name sent by the PFMS in the response of an external system request
DistrictLGDCode	Varchar Mandatory Max 10	This field will contain the District LGD Code sent by PFMS in the response of an external system Request
DistrictName	Nvarchar Mandatory Max 200	This field will contain the district name sent by PFMS in the response of an external system request.
BlockLGDCode	Varchar Mandatory Max 10	This field will contain the Block LGD code sent by the PFMS in the response of an external system query
BlockName	Nvarchar Mandatory Max 500	This field will contain the block name sent by PFMS in the response of an external system request
APIResponsestatus	Varchar Mandatory Max 100	This field will contain API Response status of external system request

11.4 Panchayat LGD API

External system can invoke this API to receive Panchayat LGD data from PFMS.

11.4.1 Input Parameter

<https://api.pfms.gov.in/api/LocationAPI/GetPanchayatLGD>

Input Parameters

RequestHeader

Content-type application/X-www-form-urlencoded
userID#UserName
pwd#pwd

Request Body(Input Parameters)

StateLGDCode

DistrictLGDCode

BlockLGDCode

11.4.2 Field level Description of Request Message

Field	Data Type	Description
-------	-----------	-------------

UserName	Varchar Mandatory Max 50	Username would be as provided by PFMS. The same username can be used for each request message.
Password	Varchar Mandatory Max 100	PFMS would convey the password to External System. Thereafter, same password would be sent in each request message. Password should be generated as per policy at PFMS.
StateLGDCode	Varchar Mandatory Max 10	StateLGDCode Input parameter is mandatory to receive Panchayat LGD data from PFMS.
DistrictLGDCode	Varchar Mandatory Max 10	DistrictLGDCode Input parameter is mandatory to receive Panchayat LGD data from PFMS.
BlockLGDCode	Varchar Mandatory Max 10	BlockLGDCode Input parameter is mandatory to receive Panchayat LGD data from PFMS.

11.4.3 JSON Response

Response(JSON)

```
[
  {
    "StateLGDCode": "1",
    "StateName": "JAMMU AND KASHMIR",
    "DistrictLGDCode": "8",
    "DistrictName": "KUPWARA",
    "BlockLGDCode": "83",
    "BlockName": "KALAROOCH",
    "PanchayatLGDCode": "7208",
    "PanchayatName": "Dapal",
    "APIResponseStatus": "success"
  },
  {
    "StateLGDCode": "1",
    "StateName": "JAMMU AND KASHMIR",
    "DistrictLGDCode": "8",
    "DistrictName": "KUPWARA",
    "BlockLGDCode": "83",
    "BlockName": "KALAROOCH",
    "PanchayatLGDCode": "7209",
    "PanchayatName": "Dapal1",
    "APIResponseStatus": "success"
  }
]
```

11.4.4 Field level Description for Response Message.

Field	Data Type	Description
StateLGDCode	Varchar Mandatory	This field will contain the State LGD Code sent by PFMS in the response of an ex-

	Max 10	ternal system query
StateName	Nvarchar Mandatory Max 100	This field will contain the State Name sent by the PFMS in the response of an external system request
DistrictLGDCode	Varchar Mandatory Max 10	This field will contain the District LGD Code sent by PFMS in the response of an external system Request
DistrictName	Nvarchar Mandatory Max 200	This field will contain the district name sent by PFMS in the response of an external system request
BlockLGDCode	Varchar Mandatory Max 10	This field will contain the Block LGD code sent by the PFMS in the response of an external system query
BlockName	Nvarchar Mandatory Max 500	This field will contain the block name sent by PFMS in the response of an external system request
PanchayatLGDCode	Varchar Mandatory Max 10	This field will contain the Panchayat LGD Code sent by PFMS in the response of an external system request.
PanchayatName	Nvarchar Mandatory Max 500	This field will contain the Panchayat name sent by PFMS in the response to an external system query
APIResponsestatus	Varchar Mandatory Max 100	This field will contain API Response status of external system request

12 Agency Data API

The Get Agency Data API will return component wise Agency data in response based on scheme code and date provided in request body or based upon the Scheme Code and the LGD Code for the State and District.

12.1 Input Parameter

a. Input Parameter

<https://api.pfms.gov.in/api/AgencyDataAPI/GetAgencyDetails>

Input Parameters :

Request Header
Content-Type application/x-www-form-urlencoded
userID #UserName
pwd #pwd

b. Request body (Input Parameters)

<https://api.pfms.gov.in/api/AgencyDataAPI/GetIncrementalAgencyDetails>

Request Body(Input Parameters)

SchemeCode
FromDate (yyyy-MM-dd)
ToDate (yyyy-MM-dd)

c. Request body (Input Parameters)<https://api.pfms.gov.in/api/AgencyDataAPI/GetAgencyDetails>***Request Body(Input Parameters)***

Scheme Code

StateLGDCode

DistrictLGDCode

The Web Service will invoked by two types:

Input Data Field: **Duration Wise**

1. Schemecode Varchar(10) Mandatory
2. From Date Date (8) Mandatory
3. To Date Date (8) Mandatory

Input Data Field: **Location wise**

1. Schemecode Varchar(10) Mandatory
2. StateLGDCode Varchar(10) Mandatory
3. DistrictLGDCode Varchar(100) Optional

12.2 Agency Business Logic

- The External System can then get incremental Agency Data, using Scheme Code and Date Duration (From Date & To Date)
- The Agency data can be fetched for a Week's time, from and to date cannot be greater than 7days.
- PFMS would provide the Agency data, based upon the Modified Agency Date / Change Date that is in between from & to date.
- If user will provide only State LGD Code the only state level agency data will be shared by API.
- If user will provide State LGD Code and District LGD Code then all the below level agency data related to particular district and scheme will be shared.

12.3 Agency Details

Field	Data Type	Mandatory / Optional	Description
UniqueAgencyCode	nvarchar (100)	Mandatory	Agency unique code in PFMS
AgencyName	nvarchar(200)	Mandatory	Agency name in PFMS
BankName	Varchar (200)	Mandatory	Agency Bank name in PFMS
AccountNumber	nvarchar (140)	Mandatory	Agency bank Account Number
IFSCCode	Varchar (12)	Mandatory	Agency Accounts Banks Branch, IFSCCODE
StateLGDCode	Varchar (10)	Mandatory	Agency States LGD Code
DistrictLGDCode	Varchar(100)	Optional	Agency Districts LGD Code
BlockLGDCode	Varchar(100)	Optional	Agency Blocks LGD Code
PanchayatLGDCode	Varchar(100)	Optional	Agency Panchayat LGD Code
VillageCode	Varchar(100)	Optional	Agency Village LGD Code
TehsilLGDCode	Varchar(100)	Optional	Agency Tehsil LGD code
TownLGDCode	Varchar(100)	Optional	Agency Towns LGD Code
WardLGDCode	Varchar(100)	Optional	Agency Wards LGD Code
CityName	nvarchar(50)	Optional	Agency City
CenterSchemeCode	Varchar(25)	Mandatory	Center Scheme Code
StateSchemeCode	Varchar(25)	Mandatory	State Scheme Code
APIResponseStatus	Varchar(25)	Mandatory	API Status

12.4 JSON response format

```
[
  {
    "UniqueAgencyCode": "UPLU00004883",
    "AgencyName": "Panchaity Raj Department UP",
    "BankName": "STATE BANK OF INDIA",
    "AccountNumber": "39431234",
    "IFSCCode": "SBIN0006144",
    "StateLGDCode": "9",
    "DistrictLGDCode": "162",
    "BlockLGDCode": "NA",
    "PanchayatLGDCode": "NA",
    "VillageCode": "NA",
    "TehsilLGDCode": "NA",
    "TownLGDCode": "NA",
    "WardLGDCode": "NA",
    "CityName": "lucknow",
    "APIResponseStatus": "success",
    "CenterSchemeCode": "2084",
    "StateSchemeCode": "UP139"
  },
  {
    "UniqueAgencyCode": "UPBR00011066",
    "AgencyName": "URLA JAGIR BITHRI CHAINPUR BAREILLY",
    "BankName": "PUNJAB NATIONAL BANK",
    "AccountNumber": "61341234",
    "IFSCCode": "PUNB0613400",
  }
]
```



```
"StateLGDCode": "9",
"DistrictLGDCode": "130",
"BlockLGDCode": "964",
"PanchayatLGDCode": "53140",
"VillageCode": "02325900",
"TehsilLGDCode": "NA",
"TownLGDCode": "NA",
"WardLGDCode": "NA",
"CityName": "BAREILLY",
"APIResponseStatus": "success",
"CenterSchemeCode": "2084",
"StateSchemeCode": "UP139"
},
{
  "UniqueAgencyCode": "UPBB00007122",
  "AgencyName": "ROTI GAON RAMNAGAR BARABANKI",
  "BankName": "BANK OF INDIA",
  "AccountNumber": "75021234",
  "IFSCCode": "BKID0007502",
  "StateLGDCode": "9",
  "DistrictLGDCode": "129",
  "BlockLGDCode": "953",
  "PanchayatLGDCode": "52325",
  "VillageCode": "NA",
  "TehsilLGDCode": "NA",
  "TownLGDCode": "NA",
  "WardLGDCode": "NA",
  "CityName": "BARABANKI",
  "APIResponseStatus": "success",
  "CenterSchemeCode": "2084",
  "StateSchemeCode": "UP139"
}
]
```

12.5 XML format

```

<AgencyDetailData>
<AgencyData>
  <UniqueAgencyCode>UPLU00004883</UniqueAgencyCode>
  <AgencyName>Panchaity Raj Department UP</AgencyName>
  <BankName>STATE BANK OF INDIA</BankName>
  <AccountNumber>39431234</AccountNumber>
  <IFSCCode>SBIN0006144</IFSCCode>
  <StateLGDCCode>9</StateLGDCCode>
  <DistrictLGDCCode>162</DistrictLGDCCode>
  <BlockLGDCCode>NA</BlockLGDCCode>
  <PanchayatLGDCCode>NA</PanchayatLGDCCode>
  <VillageCode>NA</VillageCode>
  <TehsilLGDCCode>NA</TehsilLGDCCode>
  <TownLGDCCode>NA</TownLGDCCode>
  <WardLGDCCode>NA</WardLGDCCode>
  <CityName>lucknow</CityName>
  <CenterSchemeCode>2084</CenterSchemeCode>
  <StateSchemeCode>UP139</StateSchemeCode>
</AgencyData>

<AgencyData>
  <UniqueAgencyCode>UPBB00007131</UniqueAgencyCode>
  <AgencyName>JAHANGIRABAD-2 BANKI BARABANKI</AgencyName>
  <BankName>BANK OF INDIA</BankName>
  <AccountNumber>75391234</AccountNumber>
  <IFSCCode>BKID0007539</IFSCCode>
  <StateLGDCCode>9</StateLGDCCode>
  <DistrictLGDCCode>129</DistrictLGDCCode>
  <BlockLGDCCode>943</BlockLGDCCode>
  <PanchayatLGDCCode>51653</PanchayatLGDCCode>
  <VillageCode>NA</VillageCode>
  <TehsilLGDCCode>NA</TehsilLGDCCode>
  <TownLGDCCode>NA</TownLGDCCode>
  <WardLGDCCode>NA</WardLGDCCode>
  <CityName>BARABANKI</CityName>
  <CenterSchemeCode>2084</CenterSchemeCode>
  <StateSchemeCode>UP139</StateSchemeCode>
  <UniqueAgencyCode>UPBB00007136</UniqueAgencyCode>
  <AgencyName>BHAYARA MASAULI BARABANKI</AgencyName>
  <BankName>BANK OF INDIA</BankName>
  <AccountNumber>75081234</AccountNumber>
  <IFSCCode>BKID0007508</IFSCCode>
  <StateLGDCCode>9</StateLGDCCode>
  <DistrictLGDCCode>129</DistrictLGDCCode>
  <BlockLGDCCode>949</BlockLGDCCode>
  <PanchayatLGDCCode>52052</PanchayatLGDCCode>
  <VillageCode>05781600</VillageCode>
  <TehsilLGDCCode>NA</TehsilLGDCCode>

```

```

<TownLGDCode>NA</TownLGDCode>
<WardLGDCode>NA</WardLGDCode>
<CityName>BARABANKI</CityName>
<CenterSchemeCode>2084</CenterSchemeCode>
<StateSchemeCode>UP139</StateSchemeCode>
</AgencyData>

</AgencyDetailData>

```

13 DBT Configuration Details Web service

The External System can fetch the DBT configuration status of a Scheme along with Agency with external systems using this web service.

13.1 XML Message Details

Message Name	Description
Message 1	Parameter Request message from External System to PFMS
Message 2	Parameter Response message from PFMS to External System

13.2 XML Message Format

13.2.1 Parameter Request Message from External System to PFMS (Message 1)

```

<?xml version="1.0" encoding="utf-8"?>
<x:Envelope
  xmlns:x="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:tem="http://tempuri.org/">
  <x:Header>
    <Password?></Password>
    <UserName?></UserName>
  </x:Header>
  <x:Body>
    <RequestMessage>
      <ClientIP?></ClientIP>
      <SchemeCode?></SchemeCode>
      <AgencyUniqueCode?></AgencyUniqueCode>
      <ResponseMessage></ResponseMessage>
    </RequestMessage>
  </x:Body>
</x:Envelope>

```

13.3 Field (Tags) Level Descriptions for request Message 1

Field	Data Type	Description
-------	-----------	-------------

Field	Data Type	Description
Username	Alpha Numeric Mandatory Max (35)	Username would be as provided by PFMS. For first time configuration PFMS shall provide the username to Bank via media other than e-mail. Therefore, same username can be used for each request message. Any change in username must be conveyed by banks to PFMS over media other than e-mail. User name may contain Alphabets, Numbers and special characters' underscore (_) and dot (.)
Password	Alphanumeric Mandatory Max (35)	For first time data exchange, PFMS would have to convey the password to Bank through media other than e-mail. Thereafter, same password would be sent in each request message. Password should be generated as per bank's policy. Also, banks must convey any change in the password to PFMS over media other than e-mail.
SchemeCode	Varchar (4)	It is the scheme code of the file.
AgencyUniqueCode	NVarchar (500)	User can send multiple unique agency code with comma separated like ('123', '456', '789').

13.4 Parameter Response message from PFMS to External System (Message 2)

```

< Response-Message >
<Mapping-details>
  <UniqueAgencyCode>BRPA00003430</UniqueAgencyCode>
  <AgencyStateName>BIHAR</AgencyStateName>
  <SchemeCode>9255</SchemeCode>
  <SchemeName>MERIT - CUM - MEANS BASED SCHOLARSHIP FOR PROFESSIONAL AND
TECHNICAL COURSES OF UNDER GRADUATE AND POST-GRADUATE</SchemeName>
  <SchemeLocation>Not Configured</SchemeLocation>
  <AgencyAccountMapping>Not Mapped</AgencyAccountMapping>
  <PaymentMode></PaymentMode>
  <BeneficiaryType></BeneficiaryType>
  <BeneficiaryTypeName></BeneficiaryTypeName>
  <DBTMissionCode></DBTMissionCode>
  <PurposeCode></PurposeCode>
  <PurposeName></PurposeName>
  <AgencyAccountNumber></AgencyAccountNumber>
</Mapping-details>
<Mapping-details>
  <UniqueAgencyCode>dhtemeghalaya</UniqueAgencyCode>
  <AgencyStateName>MEGHALAYA</AgencyStateName>
  <SchemeCode>9255</SchemeCode>
  <SchemeName>MERIT - CUM - MEANS BASED SCHOLARSHIP FOR PROFESSIONAL AND
TECHNICAL COURSES OF UNDER GRADUATE AND POST-GRADUATE</SchemeName>
  <SchemeLocation>Not Configured</SchemeLocation>
  <AgencyAccountMapping>Not Mapped</AgencyAccountMapping>
  <PaymentMode></PaymentMode>
  <BeneficiaryType></BeneficiaryType>
  <BeneficiaryTypeName></BeneficiaryTypeName>
  <DBTMissionCode></DBTMissionCode>
  <PurposeCode></PurposeCode>
  <PurposeName></PurposeName>
  <AgencyAccountNumber></AgencyAccountNumber>
</Mapping-details>
<Mapping-details>
  <UniqueAgencyCode>hphedu</UniqueAgencyCode>
  <AgencyStateName>HIMACHAL PRADESH</AgencyStateName>
  <SchemeCode>9255</SchemeCode>
  <SchemeName>MERIT - CUM - MEANS BASED SCHOLARSHIP FOR PROFESSIONAL AND
TECHNICAL COURSES OF UNDER GRADUATE AND POST-GRADUATE</SchemeName>
  <SchemeLocation>Configured</SchemeLocation>
  <AgencyAccountMapping>Mapped</AgencyAccountMapping>
  <PaymentMode>PD</PaymentMode>
  <BeneficiaryType>264</BeneficiaryType>
  <BeneficiaryTypeName>Merit Scholar Minority</BeneficiaryTypeName>
  <DBTMissionCode>AFT78</DBTMissionCode>

```

```
<PurposeCode>141</PurposeCode>
<PurposeName>HOST</PurposeName>
<AgencyAccountNumber>09250110034002</AgencyAccountNumber>
</Mapping-details>
<Mapping-details>
  <UniqueAgencyCode>hphedu</UniqueAgencyCode>
  <AgencyStateName>HIMACHAL PRADESH</AgencyStateName>
  <SchemeCode>9255</SchemeCode>
  <SchemeName>MERIT - CUM - MEANS BASED SCHOLARSHIP FOR PROFESSIONAL AND
TECHNICAL COURSES OF UNDER GRADUATE AND POST-GRADUATE</SchemeName>
  <SchemeLocation>Configured</SchemeLocation>
  <AgencyAccountMapping>Mapped</AgencyAccountMapping>
  <PaymentMode>PD</PaymentMode>
  <BeneficiaryType>264</BeneficiaryType>
  <BeneficiaryTypeName>Merit Scholar Minority</BeneficiaryTypeName>
  <DBTMissionCode>AFT78</DBTMissionCode>
  <PurposeCode>142</PurposeCode>
  <PurposeName>DSCH</PurposeName>
  <AgencyAccountNumber>09250110034002</AgencyAccountNumber>
</Mapping-details>
</Response-Message >
```

13.5 Field (Tags) Level Descriptions for Response to Message 2

Field	Data Type	Description
Agency Unique Code	Varchar(100)	Agency Unique Code
Scheme Location	Varchar (25)	'Configured' or 'Not Configured'
Account Mapping	Varchar(25)	'Mapped' or 'Not Mapped'
Scheme Name	Varchar (200)	Scheme Name
Scheme Code	Varchar(50)	Scheme Code whose DBT Configuration is being fetched
Payment Mode	Varchar(2)	'IA' or 'PD', Implementing Agency or Program Division
Beneficiary Type	Integer	Beneficiary Type ID
Beneficiary Type Description	Varchar (100)	Beneficiary type of the Scheme
DBT Mission Code	Varchar(25)	DBT Mission Code Mapped in PFMS for the Scheme
Purpose Code	Integer	
Purpose Name	Varchar(200)	
Agency Account Number	Varchar(35)	Agency Account Number Enrolled in the Scheme of the Agency

14 HTTP Status Code Returned by API / Web Service

Status Code Message

200	Success
500	Internal Server Error
204	No Content/No Record Found
401	Unauthorized
400	Bad Request
404	Resource not found

15 Annexure: Deduction Master

S.No	Deduction Code	Description	To Be Deducted From Gross Payment
1	HRA	Accommodation Recovery	Y
2	CGIS	Central Government Employees Group Insurance Scheme	Y
3	CGHS	Central Govt. Health Scheme	Y
4	CGST	Central GST	Y
5	CA	Computer Advance	Y
6	CGY	Contingency	Y
7	CPS	Contributory Pension Scheme	Y
8	CPF	Contributory Provident Fund	Y
9	ES	Education Cess	Y
10	EC	Electricity Charges	Y
11	EA	Emp. Association	Y
12	PRE	Employer Contribution Permanent Retirement Account Number	N
13	ECP	Employer Contribution Provident Fund	N
14	EPC	Employer Pension Contribution	N
15	EOT	EOT	Y
16	EPF	EPF	Y
17	EAD	EPF Admin	N
18	FBF	Family Benefit Fund	Y
19	FA	Festival Advance	Y
20	FAA	Festival Advance Adjustment	Y
21	GIS	GIS-Group Insurance Services	Y
22	GPF	GPF	Y
23	GPL	GPF Loan Deduction	Y
24	GP	Gross Payment	N
25	HBA	House Building Advance (HBA)	Y
26	HBAI	House Building Advance Interest	Y
27	IT	IncomeTax	Y
28	IGST	Integrated GST	Y
29	LabC	Laboratory Charges	Y
30	LC	Labour Cess	Y
31	LSC	Leave Salary Contribution	N
32	LIC	LIC deduction	Y
33	LF	License Fee.	Y
34	LD	Liquidated Damages	Y
35	MSC	Misc	Y
36	NPS	National pension scheme	Y
37	NPSEC	National Pension Scheme Employer Contribution	N
38	NHIS	New Health Insurance Scheme	Y
39	OTH	Others	Y
40	PBL	PBL- Personal Bank Loan	Y
41	PSD	Performance Security Deposit	Y

S.No	Deduction Code	Description	To Be Deducted From Gross Payment
42	PRA	Permanent Retirement Account Number	Y
43	PLI	Postal Life Insurance	Y
44	PPF	PPF/PF	Y
45	PTX	Professional Tax	Y
46	PT	PT	Y
47	RTAX	Revenue Tax	Y
48	RYT	Royalty	Y
49	RKB	Royalty Keep Back	Y
50	SEC	Secondary & Higher Education Cess	Y
51	SD	Security Deposit	Y
52	ST	Service Tax	Y
53	SPF	Special Provident Fund	Y
54	SGST	State GST	Y
55	SCH	Surcharge	Y
56	TDS	TDS	Y
57	TCGST	TDS on CGST	Y
58	TIGST	TDS on IGST	Y
59	TSGST	TDS on SGST	Y
60	TCS	Thrift & Credit Society	Y
61	VAT	Value Added Tax	Y
62	VA	Vehicle Advance	Y
63	WC	Water Charges	Y
64	WF	Welfare	Y
65	WA	Withheld Amount	Y