

Web Services Integration Document for
CFPP
[Central Food Grains Procurement Portal]
with
State
Procurement Applications



Food and Public Distribution System
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Document Control Record

Title	API Integration Document for CFPP			
Description	API Document explaining the web services for exchange of data between CFPP (Central Server) and respective State Procurement applications.			
Maintained by	Food & Public Distribution System, National Informatics Center			
Version	Submission Date	Change Record / Reason for change	Author(s)	Status
1.0	19-Aug-2021	Initial	1. Anita 2. Shubham	Initial
2.0	14-Sep-2021	1. API Methods (POST / GET indicated). 2. JSON examples provided. 3. Master API to identify the procuring agency included. 4. Inclusion of procuring_agency_id in the transaction services. 5. Change of some parameters from 'Required' to 'Optional'. 6. Parameter to indicate whether land records have been verified or not, by State Govt.	1. Anita 2. Shubham	Second
3.0	20-Sep-2021	Below parameter added in WS : 1. Farmer Registration 2. MSP Payment 3. CMR 4. Procurement Center marketing_season marketing_year crop_type_id Farmer Registration Modified and Split in to two services namely Farmer Registration and Procurement Procurement New Service Added	1. Anita 2. Shubham	Third. Lot of changes taken place in the services based upon the feedback from the States

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4.0	14-Feb-2022	<p>CMR service CMR service has been removed. Reasons: (a) to facilitate requirements of Financial Accounting Package (FAP) of FCI. (b) To identify the source and destination of the dispatches from procurement center and receipts at depot.</p> <p>Instead 2 new services have been added.</p>	1. Jose 2. Anita	Draft. Major changes like addition of 2 new services, addition of parameters in MSP service, addition to commodity master etc.,
		<p>MSP Payment Bill related parameters added to MSP Payment service.</p>		
		<p>Dispatch of Commodity New service to push details of dispatches from procurement centre.</p>		
		<p>Receipt of Commodity New service to push details of receipt at depot.</p>		
		<p>Addition in Commodity Master Varieties of Rice added as commodity in the commodity master.</p>		
		Change in sequence of services		
4.0	06-May-2022	<p>Addition in Grade Variety Master Grade varieties of wheat added in the master.</p>	1. Jose 2. Anita	Draft
		List of validations enforced in the web		Draft

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4.0	24-May-2022	<p>services</p> <p>Provision for Supplementary Bill</p> <p>1. API of receipt of CMR / Wheat modified to accept take-over of stock by FCI from State Govt. Child data introduced.</p> <p>2. New API for accepting supplementary bill information.</p>	<p>1. Jose</p> <p>2. Anita</p>	Final

Reviewers:

Reviewer(s)	Version	Review Remarks
AJK Jose (ajk.jose@nic.in)	1.0	Released in August 2021
AJK Jose (ajk.jose@nic.in)	2.0	Released in September 2021
AJK Jose (ajk.jose@nic.in)	3.0	Released in September 2021
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1. Introduction

Government of India and State Governments procure food grains i.e Paddy and Wheat during the two procurement seasons i.e, Kharif Marketing System (KMS) and Rabi Marketing System (RMS). Paddy is procured during KMS and Wheat is procured during RMS. The procurement done by FCI in the States falls under central pool stock and the procurement done by State Government falls under decentralized procurement stock. There are nearly 23 procuring States. Some States procure wheat, paddy and coarse grains, whereas most of the States procure either paddy only or wheat only or any combination of paddy, wheat and coarse grains. During the video conferencing meeting on 11th June 2021 with State Food Secretaries, Secretary(DFPD), to ensure procurement operations are carried out with complete transparency and efficiency, emphasized that the State procurement portals should have certain minimum threshold parameters (MTPs). The MTPs listed during the meeting are as follows:

- Online Registration of Farmers: Name, Father's Name, Address, Mobile No., Aadhaar no, Bank A/C details, Land details (Khata/Khasra), Self-cultivated or land on rent/share cropping/contract.
- Farmer Land Record: Integration of registered farmer's data with State's land record portal.
- Digitized Mandi/Procurement Centre operations: Generation of buyer/seller forms, bill of sale proceeds etc.
- MSP Payments to farmers: Integration through Expenditure Advance Transfer (EAT) module of PFMS and integration of Aadhar enabled direct bank transfer (AeDBT) with PFMS
- CMR/Wheat Delivery Management: Auto generation of billing upon uploading of Acceptance note/Weight check Memo and takeover of the stock (e.g) UP Model
- API Based Integration: Unified GoI portal for real-time reporting of farmers/share croppers benefited, quantity procured, and payment made

DFPD and FCI has desired on developing a central repository wherein the above referred MTP related data shall be pushed by all the State procurement portals. The data shall be received through API based integration. The States, which have their procurement portal along-with necessary integration (with State's land record portal and EAT module of PFMS) can integrate with the central portal to share data related to all the Minimum Threshold Parameters. The remaining States shall provide the available data. However, DFPD's objective is that, all State procurement portals shall push complete MTP related data to the central portal.

The proposed API's are for Integration of Central Food Grain Procurement Portal (Central Server) with respective procurement application of States. These APIs will aid to share the farmer registration details, Quantity procured (in Qtl.Kg) details, MSP payment details, Farmer Land ownership category, Farmer Social Category, CMR details, Farmer Land ownership type, and Quantity received at depot details, and procurement center related details under which the food grains are stored. All details will be captured at farmer level.

2. Scope

These web services provide a common data format to the States using which State procurement application will push the data as per the parameter defined in the common data format.

2.1 APIs for Data Sharing & Receiving

There are 6 Transactional Web Services

Sl. No.	Service Name	Service Purpose	Service Method
1.	FARMER REGISTRATION	For State procurement application to push details of farmers registered for the respective marketing season.	POST
2.	PROCUREMENT	For State procurement application to push details of procurement made at different procurement centers by different procuring agencies.	POST
3.	MSP PAYMENT	For State procurement application to push details of MSP payment made to farmers.	POST
4.	DISPATCH OF COMMODITY TO DEPOT OR MILL	For State procurement application to push details of commodity dispatched, the destination for the respective dispatch etc.,	POST
5.	RECEIPT OF COMMODITY AT DEPOT	For State procurement application to push details of receipts at depot either from procurement center or from mills. Also facilitates concept of take-over of stock by FCI from State Govt.	POST
6.	SUPPLEMENTARY BILL	For State procurement application to push details of Supplementary bills generated against a primary bill of supply number.	POST

There are 15 Transactional Web Services:

Sl. No.	Service Name	Service Purpose	Service Method
1.	Commodity Procured	Commodity Master	GET
2.	Depot Type	Depot Type Master	GET

3.	Farmer ID Type	Farmer ID Type Master	GET
4.	Farmer Land Ownership Category	Farmer Land Ownership Category Master	GET
5.	Farmer Social Category	Farmer Social Category Master	GET
6.	Grade Variety	Grade Variety Master	GET
7.	Ownership Type	Ownership Type Master	GET
8.	Procurement Center	Procurement Center Master to be provided by state procurement application	POST
9.	Season Master	Season	GET
10.	State Master	State Master	GET
11.	District Master	District Master	GET
12.	Tehsil Master	Tehsil Master	GET
13.	Village Master	Village Master	GET
14.	Procuring Agency	Procuring Agency Master to be provided by state procurement application	POST
15.	Procuring Agency Type Master	Procuring Agency Type Master	GET

For the sake of uniformity, relevant Masters like Commodity, Depot Type, Farmer ID Type, Land Ownership Category, Marketing Season, State code, LGD District Code, depot type, LGD Village master, LGD Tehsil Master, etc., shall be defined by CFPP Central Server. This master details and the relevant ID's/Code can be accessed from the website of CFPP. The website <https://lgdirectory.gov.in> may be used to download the latest LGD codes of State, District, Sub-district, village etc.,

2.1.1 Web Service for State Procurement application to push the details of Farmer registration.

FARMER-REGISTRATION

This CFPP API will consume the details of Farmer registration pushed by State procurement application to central CFPP Server. State procurement portal shall push details of every individual farmer using this web service.

Frequency: Generally is needed once in a season; provided farmer registration concludes before commencement of procurement. However, if the farmer registration is a continuous process which happens during the procurement season also, then the incremental data (data previously not sent) may be pushed as and when needed.

2.1.1.1 Authorization Setup

Header	Value
Client Id	To be provided by CFPP team
Client Password	To be provided by CFPP team

2.1.1.2 Input JSON Parameters

S. No.	Parameter	Data Type	Description/ Purpose	Required
1.	farmer_id	character varying(20)	Farmer ID To be provided by State procurement application. If Aadhaar is used as farmer id, State application may generate its own unique number which can be shared with the respective farmer also.	Y
2.	marketing_season	Integer	1-KMS (Kharif marketing season) 2-RMS (Rabi marketing season)	Y
3.	marketing_year	character varying(9)	2021-2022 (Financial Year)	Y
4.	crop_type_id	integer	1- Kharif crop 2- Rabi crop	Y
5.	farmer_name_en	character varying(99)	Farmer Name in English	Y
6.	farmer_name_ll	character varying(99)	Farmer Name in local language	O

S. No.	Parameter	Data Type	Description/ Purpose	Required
7.	farmer_id_card_type	Integer	1-Aadhaar 2-Kisan Credit Card 3-EPIC Card 4- State Govt. provided ID 5- PAN 6- Ration Card 7-MGNREGA Job Card	Y
8.	farmer_id_card_number	character varying(30)	Number as indicated in the farmer id card. If the ID Card Type is Aadhaar, Masked Aadhaar may be provided	Y
9.	gender	integer	Gender 1- Male 2- Female 3-Transgender 4-Y2C (Yet to Capture)	Y
10.	date_of_birth	character varying(10)	Date of Birth(DD-MM-YYYY). If DOB not fully captured by state application, age may be calculated and provided in the parameter for age.	O
11.	age	integer	Age	O/Y
12.	farmer_address	character varying(200)	Farmer Address - excluding district name and State name, since LGD State Code and LGD District code is mandatory.	Y
13.	pin_code	integer(6)	Pin code	O
14.	mobile_no	integer(11)	Mobile Number	O
15.	aadhaar_encrypted	Character varying	Aadhaar in Encrypted form (AES 256 encryption preferred)	O
16.	aadhaar_masked	character varying(12)	Aadhaar in Masked form (MASKED123456)	O

S. No.	Parameter	Data Type	Description/ Purpose	Required
17.	ownership_type_id	integer	To identify the farmer based on the type of cultivation in the land; either owned or hired or leased. 1-Owned 2-Rented (For Season or for year) 3-Leased (For longer duration more than year) 4-Shared cultivation 5-Multiple ownership 6-Contract Farming	Y
18.	land_records_verified	integer	To indicate whether land records of the farmer has been verified by the State Government. This is needed if the State procurement portal is not integrated with land records. 1 –Yes 2 – No	Y
19.	farmer_land_ownership_category_id	integer	To identify the farmer based on the land holding of the farmer. 1-Marginal - below 1.0 hectare 2-Small - 1.0 hectare and above, but less than 2.0 hectare 3- Semi-Medium - 2.0 hectare and above, but less than 4.0 hectare 4-Medium - 4.0 hectare and above, but less than 10.0 hectare 5-Large - 10.0 hectare and above 6-Multiple Ownership	Y
20.	khasra_no	character varying(10000)	Khasra No. / Khatuan No. / Survey No ./ etc., Multiple khasra number / may be provided as comma separated.	Y

S. No.	Parameter	Data Type	Description/ Purpose	Required
21.	khata_no	character varying(10000)	Khata No./Patta No./Registry No. Multiple Registry number / Khata No. etc., may be provided as comma separated.	Y
22.	land_area_in_hectares	real	Land area (in hectares) Sum of the multiple land holding, if the farmer owns multiple tracts of land.	Y
23.	cultivated_area_in_hectares	real	Cultivated area (in hectares) for the season in question Sum of area cultivated from the multiple land holding, if the farmer owns multiple tracts of land.	Y
24.	caste_category_id	integer	1- SC 2- ST 3-OBC 4-General 5-Y2C (Yet to Capture)	Y
25.	procurement_season_id	integer	Provided by CFPP. Combination of Season (KMS / RMS)/marketing year/commodity procured/crop type	Y
26.	lgd_state_code	integer	LGD State Code of Farmer residence address	Y
27.	lgd_district_code	integer	LGD District code of Farmer residence address	Y
28.	lgd_subdistrict_code	integer	LGD Subdistrict Code of Farmer residence address	O
29.	lgd_block_code	integer	LGD Block Code of Farmer residence address	O
30.	lgd_village_code	integer	LGD Village code of Farmer residence address	O
31.	lgd_state_code_land	integer	LGD State Code where the cultivated land is located	Y
32.	lgd_district_code_land	integer	LGD District Code where the cultivated land is located. For multiple land holding across districts, LGD Code may be provided as comma separated.	Y

S. No.	Parameter	Data Type	Description/ Purpose	Required
33.	lgd_subdistrict_code_land	integer	LGD Subdistrict Code where the cultivated land is located. For multiple land holding across sub-districts, LGD Code may be provided as comma separated.	O
34.	lgd_block_code_land	integer	LGD Block Code where the cultivated land is located For multiple land holding across blocks, LGD Code may be provided as comma separated.	O
35.	lgd_village_code_land	integer	LGD Village Code where the cultivated land is located For multiple land holding across villages, LGD Code may be provided as comma separated.	O
36.	data_date	character varying(10)	Date of registration of the farmer in the State portal for the season in question, or if one time registration, date of activation of the farmer’s registration for the season in question.	O
37.	transaction_reference_id	character varying(12)	Transaction reference number to be tagged with every record pushed by State procurement application (2 digit LGD state code (If LGD state code is single digit, prefix with ‘0’ + 10 digit running number / random number). Should not be duplicate.	Y

2.1.1.3 Request/Response JSON Parameters

Web Service Type: Transaction Service -1

Web Service Name: FARMER REGISTRATION

Method: POST

URL:<domain>/cfpp /farmer_registration/{client_id}

Note: <domain> may be kept as a variable, since domain name may change.

Request JSON:

```
[{
  "farmer_id": "12345",
  "marketing_season": 1,
  "marketing_year": "2021-2022",
  "crop_type_id": 2,
  "farmer_name_en": "ABCD",
  "farmer_name_ll": "ABCD",
  "farmer_id_card_type": 1,
  "farmer_id_card_number": "123456",
  "gender": 2,
  "date_of_birth": "10-10-2021",
  "age": 34,
  "farmer_address": "ABCDEFGH",
  "pin_code": 112233,
  "mobile_no": "1111111111",
  "aadhaar_encrypted": "AIODIHICBUD55515KJDHK",
  "aadhaar_masked": "1111111111",
  "ownership_type_id": 345,
  "farmer_land_ownership_category_id": 3,
  "khasra_no": "111111111",
  "khata_no": "111111111",
  "land_area_in_hectares": 345,
  "land_records_verified": 1,
  "cultivated_area_in_hectares": 345,
  "caste_category_id": 3,
  "procurement_season_id": 3,
  "lgd_state_code": 11,
  "lgd_district_code": 345,
  "lgd_subdistrict_code": 345,
  "lgd_block_code": 345,
  "lgd_village_code": 345,
  "lgd_state_code_land": 34,
  "lgd_district_code_land": "345,362,562",
  "lgd_subdistrict_code_land": 345,
  "lgd_block_code_land": 345,
  "lgd_village_code_land": 345,
  "data_date": "10-05-2022",
  "transaction_reference_id": "111234567",
}]
```

Response JSON:

```
{
  "data": {
    "client_id": "1",
    "transaction_id": "1232125",
    "service_code": " FRMRGN",
    "transaction_status": "SUCCESS",
    "transaction_remarks": "Data Uploaded",
    "data_landing_timestamp": "2021-08-22 09:47:37.895",
    "acknowledgement_no": "220820211232125"
  },
  "message": "Farmer saved successfully.",
  "status": 200
}
```

2.1.2 Web Service for State Procurement application to push the details of Procurement.

PROCUREMENT

This CFPP API will consume the details of procurement made from the farmer, the details like, procurement season id, procuring agency, type or category of the procuring agency, procurement center or farm gate id, quantity procured, etc.,

Frequency: Every date of procurement covering every instance of procurement.

2.1.2.1 Authorization Setup

Header	Value
Client Id	Same client id which is specified by CFPP
Client Password	Same client password which is specified by CFPP

2.1.2.2 Input JSON Parameter

S. No.	Parameter	Data Type	Description/Purpose	Required
1.	procurement_season_id	integer	Season (KMS / RMS)/marketing year/commodity procured/crop type	Y
2.	procuring_agency_id	integer	To identify the name of the procuring agency sent by State procurement portal. Details of the procuring agency are to be sent by the State procurement portal to CFPP, based on which CFPP shall build a master of	Y

S. No.	Parameter	Data Type	Description/Purpose	Required
			procuring agencies.	
3.	procurer_type_id	integer	To identify the category of the procuring agency	Y
4.	marketing_season	Integer	1-KMS (Kharif marketing season) 2-RMS (Rabi marketing season)	Y
5.	marketing_year	character varying(9)	2021-2022 (Financial Year)	Y
6.	crop_type_id	integer	1- Kharif crop 2- Rabi crop	Y
7.	farmer_id	varchar(20)	Farmer ID(State provided)	Y
8.	procurement_center_farm_gate_id	varchar(20)	Procurement center ID or Farm Gate ID (procurement center / farm gate in which quantity is procured from the farmer) <i>To be provided by State procurement portal. CFPP shall create a master of procurement centers / farm gates for every season.</i>	Y
9.	date_of_procurement	varchar(10)	Date of procurement(DD-MM-YYYY)	Y
10.	quantity_procured	Real	Quantity procured in Qtl.Kg (Two decimal places)	Y
11.	grade_variety_id	integer	1- Common-FAQ 2- Common-URS 3- Grade A – FAQ 4- Grade A – URS 5- Wheat-FAQ 6- Wheat-URS with Rate Cut 7- Wheat-URS without rate cut	Y
12.	procurement_receipt_id	varchar(20)	Procurement receipt ID	Y
13.	lgd_state_code	integer	lgd state code of the location of procurement center or farm gate	Y
14.	lgd_district_code	integer	lgd district code of the location of procurement center or farm gate	Y
15.	lgd_subdistrict_code	integer		O

S. No.	Parameter	Data Type	Description/Purpose	Required
16.	lgd_block_code	integer		O
17.	lgd_village_code	integer		O
18.	transaction_reference_id	character varying(12)	Transaction reference number to be tagged with every record pushed by State procurement application (2 digit LGD state code (If LGD state code is single digit, prefix with '0' + 10 digit running number / random number). Should not be a duplicate.	Y

2.1.2.3 Request/Response JSON Parameter

Web Service Type: Transaction Service -2

Web Service Name: PROCUREMENT

Method: POST

URL:<domain>/cfpp /procurement/{client_id}

Note: <domain> may be kept as a variable, since domain name may change.

Request JSON:

```
{
  "procurement_season_id": 1,
  "procuring_agency_id":1,
  "marketing_season ":1,
  "marketing_year":2021-2022,
  "crop_type_id":2,
  "farmer_id ":2223,
  "procurement_center_farm_gate_id ": "123123123",
  "procurer_type_id":2,
  "date_of_procurement": "11-10-2021",
  "quantity_procured": 1111.20,
  "grade_variety_id": 3,
  "procurement_receipt_id": "1111111",
  "transaction_reference_id": "111234567",
  "lgd_state_code": 11,
  "lgd_district_code": 345
  "lgd_subdistrict_code": 345
  "lgd_block_code": 345
```

```
" lgd_village_code": 345
}
```

Response JSON:

```
{
  "data": {
    "client_id": "1",
    "transaction_id": "1232125",
    "service_code": "PROCUR",
    "transaction_status": "SUCCESS",
    "transaction_remarks": "Data Uploaded",
    "data_landing_timestamp": "2021-08-22 09:47:37.895",
    "acknowledgement_no": "220820211232125"
  },
  "message": "Procurement data saved successfully.",
  "status": 200
}
```

2.1.3 Web Service for State Procurement application to push the details of MSP payment details.

MSP PAYMENT

This CFPP API will consume the details of farmer wise MSP payment, MSP amount made to Farmers. State procurement portal shall push details of MSP payment details of individual farmer using this web service.

Frequency: Every date of MSP payment - on daily basis. MSP payment date and reference sent with bank details of farmer.

2.1.3.1 Authorization Setup

Header	Value
Client Id	Same client id which is specified by CFPP
Client Password	Same client password which is specified by CFPP

2.1.3.2 Input JSON Parameter

S. No.	Parameter	Data Type	Description/Purpose	Required
1.	procurement_season_id	integer	Season (KMS /	Y

S. No.	Parameter	Data Type	Description/Purpose	Required
			RMS)/marketing year/commodity procured/crop type. Provided by CFPP Server. Can be obtained using http://cfpp.nic.in/cfpp/swager_cfpp	
2.	procuring_agency_id	integer	To identify the name of the procuring agency sent by State procurement portal. Details of the procuring agency are to be sent by the State procurement portal to CFPP, based on which CFPP shall build a master of procuring agencies.	Y
3.	procurer_type_id	integer	To identify the category of the procuring agency. Provided by CFPP Server. Can be obtained using http://cfpp.nic.in/cfpp/swager_cfpp	Y
4.	marketing_season	Integer	1-KMS (Kharif marketing season) 2-RMS (Rabi marketing season)	Y
5.	marketing_year	character varying(9)	2021-2022 (Financial Year)	Y
6.	crop_type_id	integer	1- Kharif crop 2- Rabi crop	Y
7.	farmer_id	character varying(20)	Farmer ID(State provided)	Y
8.	msp_varying_rate_rate_cut	integer	1-MSP 2-Rate Cut 3-Varying Rate	Y
9.	varying_rate	real	If not MSP the varying rate applicable. If not applicable, provide zero.	Y
10.	rate_cut_value	real	Applicable rate cut value. If not applicable, provide	Y

S. No.	Parameter	Data Type	Description/Purpose	Required
			zero	
11.	procurement_receipt_id	character varying(20)	Procurement receipt ID	Y
12.	misp_due_to_farmer	real	MSP due to farmer	Y
13.	misp_paid_to_farmer	real	MSP paid to farmer. Pass zero if no payment is made	Y
14.	misp_payment_date	character varying(10)	MSP payment date (DD-MM-YYYY). Cannot be blank/null, if MSP paid is greater than zero	Y/O
15.	misp_payment_reference_no	character varying(50)	MSP payment reference no. (UTR No./PFMS Ref. No. /) Cannot be blank/null, if MSP paid is greater than zero	Y/O
16.	bill_no	character varying(20)	Bill Ref. Number against which the payment has been made to the farmer.	Y/O
17.	bill_date	character varying(10)	Bill date of the Bill No. pertaining to the MSP payment (DD-MM-YYYY). Cannot be blank/null, if MSP paid is greater than zero.	Y/O
18.	aadhaar_pfms_enabled_payment	Integer	To identify whether State application performs Aadhaar enabled payment or PFMS integration has been completed. 1- Aadhaar Enabled Payment system 2- PFMS Integrated 0- None	Y
19.	farmer_bank_account_no	character varying(20)	Farmer Bank Account No. to which the MSP amount has been made If aadhaar_pfms_enabled_payment is 0, field should be provided	O/Y
20.	bank_name	character varying(100)	Bank Name If aadhaar_pfms_enabled_pay	O/Y

S. No.	Parameter	Data Type	Description/Purpose	Required
			ment is 0, , field should be provided	
21.	branch_name	character varying(100)	Branch Name If aadhaar_pfms_enabled_payment is 0, , field should be provided	O/Y
22.	ifsc_code	character varying(11)	IFSC code If aadhaar_pfms_enabled_payment is 0, field should be provided	O/Y
23.	bank_ac_aadhaar_seeded	integer	To identify whether the farmers bank account is aadhaar seeded or not, in the State application. 1-Yes 2-No 3-Y2C (Yet to capture)	Y
24.	transaction_reference_id	character varying(12)	Transaction reference number to be tagged with every record pushed by State procurement application (2 digit LGD state code (If LGD state code is single digit, prefix with '0' + 10 digit running number / random number). Should not be a duplicate.	Y
25.	lgd_state_code	integer	LGD State code of Farmer residence address	Y
26.	lgd_district_code	integer	LGD District code of Farmer residence address	Y

2.1.3.3 Request/Response JSON Parameter

Web Service Type: Transaction Service -3

Web Service Name: MSP PAYMENT

Method: POST

URL:<domain>/cfpp /msp_payment/{client_id}

Note: <domain> may be kept as a variable, since domain name may change.

Request JSON:

```
{  
  "procurement_season_id": 1,  
  "procuring_agency_id":123,  
  "procurer_type_id":1,  
  "marketing_season":1,  
  "marketing_year":2021-2022,  
  "crop_type_id":2,  
  "farmer_id": "12311",  
  "msp_varying_rate_rate_cut": 111,  
  "varying_rate": 1234.56,  
  "rate_cut_value": 222.22,  
  "procurement_receipt_id": 222.22,  
  "msp_due_to_farmer": 5645.55,  
  "msp_paid_to_farmer": 5645.55,  
  "msp_payment_date": "10-10-2021",  
  "msp_payment_reference_no": " 34556",  
  "bill_no": " 123456",  
  "bill_date": " 02-01-2022",  
  "aadhaar_pfms_enabled_payment": 1,  
  "bank_ac_aadhaar_seeded": 1,  
  "farmer_bank_account_no": "11111111111111111111",  
  "bank_name": "ABC",  
  "branch_name": "ABC",  
  "ifsc_code": "ABC0001",  
  "transaction_reference_id": "111234567",  
  "lgd_state_code":1,  
  "lgd_district_code":123  
}
```

Response JSON:

```
{  
  "data": {  
    "client_id": "1",  
    "transaction_id": "1232125",  
    "service_code": "MSPPAY",  
    "transaction_status": "SUCCESS",  
    "transaction_remarks": "Data Uploaded",  
    "data_landing_timestamp": "2021-08-22 09:47:37.895",  
    "acknowledgement_no": "220820211232125"  
  },  
  "message": "MSP Payment data saved successfully.",  
  "status": 200  
}
```

2.1.4 Web Service for State Procurement application to push the details of commodity (Paddy / Wheat/ any other Commodity) dispatched from Procurement Center to either Depot or Miller

DISPATCH OF PADDY/ WHEAT/ ANY OTHER COMMODITY TO DEPOT OR MILL

This CFPP API will consume the details of Paddy/ Wheat/ any other Commodity dispatched from a given procurement center to either Depot or Mill. The details that shall be pushed using this service are like procurement season id, procurement center id, destination depot code, destination depot name, destination mill code, destination mill name, commodity details etc., State procurement portal shall push the dispatch details for any given date of dispatch.

Frequency: Every date of Paddy/ Wheat/ any other commodity dispatch details shall be pushed for every date of dispatch from the procurement center.

2.1.4.1 Authorization Setup

Header	Value
Client Id	Same client id which is specified by CFPP
Client Password	Same client password which is specified by CFPP

2.1.4.2 Input JSON Parameter

S. No.	Parameter	Data Type	Description/Purpose	Required
1.	procurement_season_id	integer	Season (KMS / RMS)/marketing year/commodity procured/crop type	Y
2.	procuring_agency_id	integer	To identify the name of the procuring agency sent by State procurement portal. Details of the procuring agency are to be sent by the State procurement portal to CFPP, based on which CFPP shall build a master of procuring agencies.	Y
3.	procurer_type_id	integer	To identify the category of the procuring agency	Y
4.	marketing_season	Integer	1-KMS 2-RMS	Y
5.	marketing_year	character varying(9)	2021-2022 (Financial Year)	Y

S. No.	Parameter	Data Type	Description/Purpose	Required
6.	crop_type_id	integer	1- Kharif crop 2- Rabi crop	Y
7.	procurement_center_farm_gate_id	varchar(20)	Procurement center ID or Farm Gate ID (procurement center / farm gate in which quantity is procured from the farmer) To be provided by State procurement portal as part of the Master data.	Y
8.	destination_type	integer	Central pool stock could be kept in depot of any type; e.g. FCI could have hired CWC/ SWC/ Private depot to store its stock. DCP states may be storing the central pool stock in a godown hired from a private party. To identify whether the destination is a mill or depot. 1. FCI (both owned & hired by FCI) 2. State Government 3. CWC (both owned & hired by CWC) 4. SWC (both owned & hired by SWC) 5. PEG 6. Mill 99. Others	Y
9.	mill_id_depot_code	character varying(20)	In case of paddy is dispatched to mill for conversion, destination Mill Id available in the State procurement portal to be provided. In case of paddy or wheat or any other commodity is dispatched to depot, the destination depot code available in the State portal to	Y

S. No.	Parameter	Data Type	Description/Purpose	Required
			be provided.	
10.	mill_name_depot_name	character varying	<p>In case of paddy is dispatched to mill for conversion, Mill name available in the State procurement portal to be provided.</p> <p>In case of paddy or wheat or any other commodity is dispatched to depot, the destination depot name available in the State portal to be provided.</p>	Y
11.	dispatch_commodity_code	integer	Code of commodity dispatched from the procurement center. Refer to Commodity Master.	Y
12.	grade_variety_id	integer	<p>Grade / Variety of the commodity dispatched.</p> <p>Irrespective of whether paddy is dispatched for conversion, or paddy or wheat or any other commodity is dispatched to depot, code of the variety dispatched may be provided.</p> <p>1- Common-FAQ 2- Common-URS 3- Grade A – FAQ 4- Grade A – URS 5- Wheat-FAQ 6- Wheat-URS with Rate Cut 7- Wheat-URS without rate cut</p>	Y
13.	dispatch_date	character varying(10)	Date of dispatch of the commodity; either to mill or depot (DD-MM-YYYY).	Y
14.	dispatch_quantity	real	Quantity of Commodity dispatched from procurement center to either mill or depot. Figure in Qtl.Kg	Y
15.	dispatch_bags	integer	No. of bags in which the commodity was dispatched.	Y

S. No.	Parameter	Data Type	Description/Purpose	Required
16.	dispatch_lot_id	varchar(50)	The Lot ID of the quantity dispatched. The Lot-id /eGate Pass Number/ any reference number generated by State Procurement Portal can be provided	Y
17.	dispatch_weight_checkmemo_reference_no	character varying(50)	<p>Weight Check Memo Reference No. or truck chit reference or similar reference like Inward No. provided by SWH/CWH/Mill/Any other WH, generated by the State application to be provided.</p> <p>Irrespective of whether paddy is dispatched to mill for conversion (or) paddy / wheat / or any other commodity is dispatched to depot, weight check memo or truck chit reference or similar reference to be provided.</p> <p>This field captures any reference number not restricted to WCM</p>	Y
18.	transaction_reference_id	character varying(12)	Transaction reference number to be tagged with every record pushed by State procurement application (2 digit LGD state code (If LGD state code is single digit, prefix with '0' + 10 digit running number / random number). Should not be a duplicate.	Y
19.	lgd_state_code	integer	LGD State code of destination depot or mill to be provided.	Y
20.	lgd_district_code	integer	LGD District code of destination depot or mill to be provided.	Y

2.1.4.3 Request/Response JSON Parameter

Web Service Type: Transaction Service - 4

Web Service Name: DISPATCH OF COMMODITY

Method: POST

URL: <domain>/cfpp/dispatch_of_commodity/{client_id}

Note: <domain> may be kept as a variable, since domain name may change.

Request JSON:

```
{
  "procurement_season_id": 1,
  "Procuring_agency_id": 123,
  "procurer_type_id": 1,
  "marketing_season": 1,
  "marketing_year": 2021-2022,
  "crop_type_id": 2,
  "procurement_center_farm_gate_id": '12456',
  "destination_type": 1,
  "mill_id_depot_code": "1111111111",
  "mill_name_depot_name": "ABC",
  "dispatch_commodity_code": 2,
  "grade_variety_id": 1,
  "dispatch_date": "10-10-2021",
  "dispatch_quantity": 452656,
  "dispatch_bags": 10,
  "dispatch_lot_id": 4521,
  "dispatch_weight_checkmemo_reference_no": "4522",
  "transaction_reference_id": "111234567",
  "lgd_state_code": 25,
  "lgd_district_code": 496
}
```

Response JSON:

```
{
  "data": {
    "client_id": "1",
    "transaction_id": "111234567",
    "service_code": "DISCOM",
    "transaction_status": "SUCCESS",
    "transaction_remarks": "Data Uploaded",
    "data_landing_timestamp": "2022-02-08 09:47:37.895",
    "acknowledgement_no": "080220221232125"
  },
}
```

```
"message": "Dispatch of Commodity data saved successfully.",
"status": 200
}
```

2.1.5 Web Service for State Procurement application to push the details of commodity (CMR / Paddy / Wheat/ any other Commodity) received at depot; either from Procurement Center or Mill.

RECEIPT OF CMR/ PADDY / WHEAT/ ANY OTHER COMMODITY AT DEPOT OR TAKE OVER OF STOCK BY FCI FROM STATE

This CFPP API will consume the details of CMR/ Paddy/ Wheat/ any other Commodity received at a given depot. The source of dispatch could be either a procurement center or a mill or a depot. The details that shall be pushed using this service are like procurement season id, procurement center id, source procurement center or farm gate id, receiving depot code, receiving depot name, source mill code, source mill name, source depot code, source depot name, commodity details etc., State procurement portal shall push the receipt details for every receipt of commodity at the depot.

Frequency: CMR/ Paddy/ Wheat/ any other commodity received at depot shall be pushed for every date of receipt of the commodities at the depot.

2.1.5.1 Authorization Setup

Header	Value
Client Id	Same client id which is specified by CFPP
Client Password	Same client password which is specified by CFPP

2.1.5.2 Input JSON Parameter

S. No.	Parameter	Data Type	Description/Purpose	Required
HEADER				
1.	procurement_season_id	Integer	Season (KMS / RMS)/marketing year/commodity procured/crop type	Y
2.	procuring_agency_id	integer	To identify the name of the procuring agency sent by State procurement portal. Details of the procuring agency are to be sent by the State procurement portal to CFPP, based on which CFPP shall build a master of procuring agencies.	Y
3.	procurer_type_id	Integer	To identify the category of the procuring agency	Y

S. No.	Parameter	Data Type	Description/Purpose	Required
4.	marketing_season	Integer	1-KMS 2-RMS	Y
5.	marketing_year	character varying(9)	2021-2022 (Financial Year)	Y
6.	crop_type_id	Integer	1- Kharif crop 2- Rabi crop	Y
7.	source_type	Integer	To identify whether the source of dispatch is a mill or procurement center. 1. FCI (both owned & hired by FCI) 2. State Government 3. CWC (both owned & hired by CWC) 4. SWC (both owned & hired by SWC) 5. PEG 6. Mill 7. Procurement Center 8. Farm Gate 99. Others	Y
8.	source_code	character varying(100)	The unique reference code of the source depot or mill or procurement center or farm gate id available in state application	Y
9.	source_name	character varying	One of the following may be provided: Name of the Procurement center (or) Farm gate (or) Mill (or) depot name from where Paddy / Wheat / or any other commodity is dispatched.	Y
10.	supply_bill_no	character varying(20)	Bill of Supply No.	Y/O
11.	supply_bill_date	character varying(10)	Bill of Supply date (DD-MM-YYYY). Mandatory if supply bill number is provided	Y/O
12.	supply_bill_amount	Real	Bill of supply amount Mandatory if supply bill number is	Y/O

S. No.	Parameter	Data Type	Description/Purpose	Required
			provided	
13.	invoice_no	character varying(20)	Invoice No.	Y/O
14.	invoice_date	character varying(10)	Invoice date (DD-MM-YYYY). Mandatory if invoice number is provided	Y/O
15.	invoice_amount	Real	Invoice amount Mandatory if invoice number is provided	Y/O
16.	transaction_reference_id	character varying(12)	Transaction reference number to be tagged with every record pushed by State procurement application (2 digit LGD state code (If LGD state code is single digit, prefix with '0' + 10 digit running number / random number). Should not be a duplicate.	Y
17.	lgd_state_code	integer	LGD State code of destination depot or mill to be provided.	Y
18.	lgd_district_code	integer	LGD District code of destination depot or mill to be provided.	Y
CHILD DATA				
19.	lot_id_a_form	varchar(20)	The Lot ID of the quantity received, as per Acceptance Note (A-Note) Reference No. Gate-pass number can be provided in case of direct delivery of Wheat from Mandi to FCI godowns (owned/hired) by state agency	Y
20.	acceptance_note_reference_no	character varying(20)	Acceptance Note (A-Note) Reference No. Irrespective of whether rice is received after conversion (or) paddy/ wheat or any other commodity is received at depot, acceptance note or generated at the respective depot to be provided.	Y
21.	wcm_reference_no	character varying(20)	Weight Check Memo (WCM) Reference No.	Y

S. No.	Parameter	Data Type	Description/Purpose	Required
22.	receiving_depot_type_id	integer	<p>Central pool stock could be kept in depot of any type; e.g. FCI could have hired CWC/ SWC/ Private depot to store its stock.</p> <p>DCP states may be storing the central pool stock in a godown hired from a private party.</p> <p>To identify the type of the receiving depot.</p> <ol style="list-style-type: none"> 1. FCI (both owned & hired by FCI) 2. State Government 3. CWC (both owned & hired by CWC) 4. SWC (both owned & hired by SWC) 5. PEG 6. Mill 99. Others 	Y
23.	receiving_depot_code	Character Varying (20)	The unique reference code for the receiving depot available in state application	Y
24.	receiving_depot_name	Character Varying (100)	Receiving Depot Name available in state application	Y
25.	receipt_txn_type	integer	<p>Flag for –</p> <ol style="list-style-type: none"> 1. Movement of DCP stock from Mill to State godowns 2. Movement of Stocks from Mill to FCI godowns (Owned/hired) for Procurement done by FCI 3. Takeover of Stocks by FCI. Movement from State depot/mill to FCI godowns (owned/hired) 	Y
26.	received_commodity_code	integer	Code of commodity received in the depot. Refer to Commodity Master. Rice and its varieties have also been coded under Commodity Master.	Y
27.	received_date	character	Date of receipt of the commodity	Y

S. No.	Parameter	Data Type	Description/Purpose	Required
		varying(10)	at depot (DD-MM-YYYY).	
28.	received_bags	integer	No. of bags in which the commodity was received at the depot.	Y
29.	quantity_received	Real	Quantity of Commodity received at the depot. Note: If the procuring agency is FCI, quantity as authenticated by FCI in the State portal to be provided. Figure in Qtl.Kg	Y
30.	moisture_percentage	Real	Percentage of moisture present in the lot as per Acceptance Note (A-Note) Reference No.	Y
31.	moisture_cut_percentage	Real	Percentage of moisture cut in the lot as per Acceptance Note (A-Note) Reference No.	Y
32.	received_quantity_moisture_cut	Real	Net Quantity received in the Lot after moisture cut. Figure in Qtl.Kg	Y

2.1.5.3 Request/Response JSON Parameter

Web Service Type: Transaction Service -5

Web Service Name: RECEIPT OF COMMODITY

Method: POST

URL:<domain>/cfpp /receipt_of_commodity/{client_id}

Note: <domain> may be kept as a variable, since domain name may change.

Request JSON:

```
{
"receiptofcommodityheader":
{
"procurement_season_id": 1,
"Procuring_agency_id": 123,
"procurer_type_id": 1,
"marketing_season": 1,
"marketing_year": 2021-2022,
"crop_type_id": 2,
"source_type":1,
"source_code": "14526",
```

```

"source_name":"ABC",
"supply_bill_no":"48252",
"supply_bill_date":"08-02-2022",
"supply_bill_amount":45298.256,
"invoice_no":123,
"invoice_date":"08-02-2022",
"invoice_amount":45544,
"transaction_reference_id":"25455545545",
"lgd_state_code":"25",
"lgd_district_code":"874"
},
"receiptofcommoditydetail":
[ {
"lot_id_a_form":"45555",
"acceptance_note_reference_no":"45225",
"wcm_reference_no":123,
"receiving_depot_type_id":1,
"receiving_depot_code":"12",
"receiving_depot_name":"ABC",
"receipt_txn_type":1,
"received_commodity_code":4,
"received_date":"08-02-2022",
"received_bags":45,
"quantity_received":4526.52,
"moisture_percentage":55,
"moisture_cut_percentage":25,
"received_quantity_moisture_cut":56
} ] }
    
```

Response JSON:

```

{
"data": {
"client_id": "1",
"transaction_id": "111234567",
"service_code": "RECCOM",
"transaction_status": "SUCCESS",
"transaction_remarks": "Data Uploaded",
"data_landing_timestamp": "2022-02-08 09:47:37.895",
"acknowledgement_no": "080220221232125"
},
"message": "Receipt of Commodity data saved successfully."
}
    
```

```
"status": 200
}
```

2.1.6 Web Service for State Procurement application to push the details of Secondary/Supplementary/Consecutive bill details for commodity (CMR / Paddy / Wheat/ any other Commodity) received at depot; either from Procurement Center or Takeover of stock by FCI from States.

RECEIPT OF SECONDARY/SUPPLEMENTARY/CONSECUTIVE BILL

This CFPP API will consume the details of Secondary/Supplementary/Consecutive Bills related to the Primary bill of supply number.

Frequency: As and when Secondary/Supplementary/Consecutive Bills is generated for a given Primary bill of supply number.

2.1.6.1 Authorization Setup

Header	Value
Client Id	Same client id which is specified by CFPP
Client Password	Same client password which is specified by CFPP

2.1.6.2 Input JSON Parameter

S. No.	Parameter	Data Type	Description/Purpose	Required
1.	procurement_season_id	Integer	Season (KMS / RMS)/marketing year/commodity procured/crop type	Y
2.	procuring_agency_id	integer	To identify the name of the procuring agency sent by State procurement portal. Details of the procuring agency are to be sent by the State procurement portal to CFPP, based on which CFPP shall build a master of procuring agencies.	Y
3.	procurer_type_id	Integer	To identify the category of the procuring agency	Y
4.	marketing_season	Integer	1-KMS 2-RMS	Y
5.	marketing_year	character varying(9)	2021-2022 (Financial Year)	Y
6.	crop_type_id	Integer	1- Kharif crop 2- Rabi crop	Y

S. No.	Parameter	Data Type	Description/Purpose	Required
7.	supply_bill_no	character varying(20)	Bill of Supply No.	Y
8.	supplementary_bill_no	character varying(20)	Supplementary Bill No.	Y
9.	supplementary_bill_date	character varying(10)	Supplementary Bill date (DD-MM-YYYY).	Y
10.	supplementary_bill_amount	Real	Supplementary Bill amount	Y
11.	transaction_reference_id	character varying(12)	Transaction reference number to be tagged with every record pushed by State procurement application (2 digit LGD state code (If LGD state code is single digit, prefix with '0' + 10 digit running number / random number). Should not be a duplicate.	Y
12.	lgd_state_code	integer	LGD State code of destination depot or mill to be provided.	Y

2.1.6.3 Request/Response JSON Parameter

Web Service Type: Transaction Service -6

Web Service Name: SUPPLEMENTARY BILL

Method: POST

URL:<domain>/cfpp /supplementary_bill/{client_id}

Note: <domain> may be kept as a variable, since domain name may change.

Request JSON:

```
{
  "procurement_season_id": 1,
  "Procuring_agency_id": 123,
  "procurer_type_id": 1,
  "marketing_season": 1,
  "marketing_year": 2021-2022,
  "crop_type_id": 2,
  "supply_bill_no": "48252",
  "supplementary_bill_no": "48252",
  "supplementary_bill_date": "08-02-2022",
  "supplementary_bill_amount": 45298.256,
  "transaction_reference_id": "25455545545",
  "lgd_state_code": "25"
}
```

Response JSON:

```
{
  "data": {
    "client_id": "1",
    "transaction_id": "111234567",
    "service_code": "SUPPBILL",
    "transaction_status": "SUCCESS",
    "transaction_remarks": "Data Uploaded",
    "data_landing_timestamp": "2022-02-08 09:47:37.895",
    "acknowledgement_no": "080220221232125"
  },
  "message": "Supplementary bill data saved successfully.",
  "status": 200
}
```

3. APIs for Master

For the sake of uniformity, relevant Masters like State code, LGD District Code, depot type, LGD Village master, LGD Tehsil Master etc as per CFPP Central Server. This master details and the relevant ID's/Code can be access through URL http://cfpp.nic.in/cfpp/swagger_cfpp

Master 1: Commodity Procured

S. No.	Parameter	Data Type	Description/Purpose	Required
1	commodity_procured_id	Integer		Y
2	commodity_procured_name	character varying(20)	1-Wheat 2-Rice Raw Common 3-Rice Parbolied Common 4-Paddy 5-Sugar 6-Bajra 7-Barley 8-Jowar 9-Maize 10-Ragi 11-Jowar(Maldand) 12-Jowar(Hybrid) 13-Gram 14-Coarse Grain 15-Tur (Arhar) 16-Urad 17-Pulses 18-Rice-Raw Grade A 19-Rice Parbolied Grade A	Y
3	Active	Integer	Active or Inactive 0-Inactive 1-Active	Y

Web Service Type: Master Web Service 1

Web Service Name: Commodity Procured

Method: GET

URL: <domain>/cfpp/listCommodityProcured

Note: <domain> may be kept as a variable, since domain name may change.

Response JSON:

```
{
"commodity_procured_id": "1",
" commodity_procured_name": "Wheat"
```



```

},
{
"commodity_procured_id": "2",
"commodity_procured_name": "Rice"
}
    
```

Master 2: Depot Type

S. No.	Parameter	Data Type	Description/Purpose	Required
1	depot_type_id	integer	1-FCI (both owned & hired by FCI) 2- CWC (both owned & hired by CWC) 3- SWC (both owned & hired by SWC) 4- Others	Y
2	depot_type_name_en	character varying(20)	1-FCI (both owned & hired by FCI) 2- CWC (both owned & hired by CWC) 3- SWC (both owned & hired by SWC) 4- Others	Y
3	Active	integer	Active or Inactive 0-Inactive 1-Active	Y

Web Service Type: Master Web Service 2

Web Service Name: Depot Type

Method: GET

URL:<domain>/cfpp/listDepotType

Note: <domain> may be kept as a variable, since domain name may change.

Response JSON:

```

{
"depot_type_id": "1",
"depot_type_name_en": "FCI"
},
{
"depot_type_id": "2",
"depot_type_name_en": "CWC"
}
    
```

Master 3: Farmer ID Type

S. No.	Parameter	Data Type	Description/Purpose	Required
1	farmer_id_type_id	Integer	1-Aadhaar 2-Kisan Credit Card 3-EPIC Card 4- State Govt. provided ID 5- PAN 6- Ration Card 7-MGNREGA Job Card	Y
2	farmer_id_type_name	character varying(40)	1-Aadhaar 2-Kisan Credit Card 3-EPIC Card 4- State Govt. provided ID 5- PAN 6- Ration Card 7-MGNREGA Job Card	Y
3	Active	Integer	Active or Inactive 0-Inactive 1-Active	Y

Web Service Type: Master Web Service 3

Web Service Name: Farmer ID Type

Method: GET

URL: <domain>/cfpp/listFarmerIdTypes

Note: <domain> may be kept as a variable, since domain name may change.

Response JSON:

```
{
"farmer_id_type_id": "1",
"farmer_id_type_name": "AADHAAR"
}
```

Master 4: Farmer Land Ownership Category

S. No.	Parameter	Data Type	Description/Purpose	Required
1	farmer_land_ownership_category_id	integer	1-Marginal - below 1.0 hectare 2-Small - 1.0 hectare and above, but less than 2.0 hectare 3- Semi-Medium - 2.0 hectare and above, but less than 4.0 hectare 4-Medium - 4.0 hectare and above, but less than 10.0 hectare 5-Large - 10.0 hectare and above 6-Multiple Land Ownership	Y
2	farmer_land_ownership_category_name	character varying(80)	1-Marginal - below 1.0 hectare 2-Small - 1.0 hectare and above, but less than 2.0 hectare 3- Semi-Medium - 2.0 hectare and above, but less than 4.0 hectare 4-Medium - 4.0 hectare and above, but less than 10.0 hectare 5-Large - 10.0 hectare and above 6-Multiple Land Ownership	Y
3	Active	integer	Active or Inactive 0-Inactive 1-Active	Y

Web Service Type: Master Web Service 4

Web Service Name: Farmer Land Ownership Category

Method: GET

URL: <domain>/cfpp/listFarmerLandOwnershipCategory

Note: <domain> may be kept as a variable, since domain name may change.

Response JSON:

```
{
"farmer_land_ownership_category_id": "1",
"farmer_land_ownership_category_name": "Marginal"
}
```

Master 5: Farmer Social Category

S. No.	Parameter	Data Type	Description/Purpose	Required
1	caste_category_id	integer	1- SC 2- ST 3-OBC 4-General 5-Other	Y
2	caste_category_en	character varying(20)	1- SC 2- ST 3-OBC 4-General 5-Other	Y
3	Active	integer	Active or Inactive 0-Inactive 1-Active	Y

Web Service Type: Master Web Service 5

Web Service Name: Farmer Social Category

Method: GET

URL:<domain>/cfpp/listFarmerSocialCategory

Note: <domain> may be kept as a variable, since domain name may change.

Response JSON:

```
{
"caste_category_id": "1",
"caste_category_en": "SC"
}
```

Master 6: Grade Variety

S. No.	Parameter	Data Type	Description/Purpose	Required
1	grade_variety_id	integer	1- Common-FAQ 2- Common-URS 3- Grade A – FAQ 4- Grade A – URS 5- Wheat-FAQ 6- Wheat-URS with Rate Cut 7- Wheat-URS without rate cut	Y
2	grade_variety_name	character varying(99)	1- Common-FAQ 2- Common-URS 3- Grade A – FAQ 4- Grade A – URS 5- Wheat-FAQ 6- Wheat-URS with Rate Cut 7- Wheat-URS without rate cut	Y
3	Active	integer	Active or Inactive 0-Inactive 1-Active	Y

Web Service Type: Master Web Service 6

Web Service Name: Grade Variety

Method: GET

URL: <domain>/cfpp/listGradeVariety

Note: <domain> may be kept as a variable, since domain name may change.

Response JSON:

```
{
"grade_variety_id": "1",
"grade_variety_name": "Common-FAQ"
}
```

Master 7: Ownership Type

S. No.	Parameter	Data Type	Description/Purpose	Required
1	ownership_type_id	integer	Ownership Type Code 1-OWNED 2-Rented (For Season or for year) 3-Leased (For longer duration more than year) 4-Shared cultivation 5-Multiple ownership 6-Contract farming	Y
2	ownership_type_name	character varying(40)	Ownership Type 1-OWNED 2-Rented (For Season or for year) 3-Leased (For longer duration more than year) 4-Shared cultivation 5-Multiple ownership 6-Contract farming	Y
3	Active	integer	Active or Inactive 0-Inactive 1-Active	Y

Web Service Type: Master Web Service 7

Web Service Name: Ownership Type

Method: GET

URL: <domain>/cfpp/listOwnerShipTypes

Note: <domain> may be kept as a variable, since domain name may change.

Response JSON:

```
{
"ownership_type_id": "1",
"ownership_type_name": "Owned"
}
```

Master 8: Procurement Center (To be provided by State procurement portal at the beginning of every season and to be updated whenever a new procurement center is added)

S. No.	Parameter	Data Type	Description/Purpose	Required
1.	procurement_center_farm_gate_id	character varying(20)	Originates from state procurement portal	Y
2.	procurement_center_farm_gate_name	character varying(99)	Originates from state procurement portal	Y
3.	marketing_season	Integer	1-KMS (Kharif) 2-RMS (Rabi)	Y
4.	marketing_year	character varying(9)	2021-2022 (Financial Year)	Y
5.	crop_type_id	integer	1- Kharif crop 2- Rabi crop	Y
6.	lgd_state_code	integer		Y
7.	lgd_district_code	integer		Y
8.	lgd_tehsil_code	integer		Y
9.	center_operated_agency_name	character varying(99)	Name of the agency which operate the procurement center	Y
10.	center_operated_agency_id	integer	ID of the agency which operate the procurement center	Y
11.	procurement_season_id	integer	Originates from central food grain procurement portal	Y
12.	transaction_reference_id	character varying(12)	Transaction reference number to be tagged with every record pushed by State procurement application (2 digit LGD state code (If LGD state code is single digit, prefix with '0' + 10 digit running number / random number). Should not be a duplicate.	Y

S. No.	Parameter	Data Type	Description/Purpose	Required
13.	Active	integer	Active or Inactive 0-Inactive 1-Active	Y

Web Service Type: Master Web Service 8

Web Service Name: Procurement Center

Method: POST

URL: <domain>/cfpp/procurement_center/{client_id}

Note: <domain> may be kept as a variable, since domain name may change.

Request JSON:

```
{
  "procurement_center_farm_gate_id": 1,
  "procurement_center_farm_gate_name": "ABC",
  "marketing_season ":1,
  "marketing_year":2021-2022,
  "crop_type_id":2,
  "lgd_state_code": 11,
  "lgd_district_code": 345,
  "lgd_tehsil_code": 345,
  "center_operated_agency_name": "ABC",
  "center_operated_agency_id":12,
  "procurement_season_id": 1,
  "transaction_reference_id": "111234567",
}
```

Response JSON:

```
{
  "data": {
    "client_id": "1",
    "transaction_id": "1232125",
    "service_code": "PROCEN",
    "transaction_status": "SUCCESS",
    "transaction_remarks": "Data Uploaded",
    "data_landing_timestamp": "2021-08-22 09:47:37.895",
    "acknowledgement_no": "220820211232125"
  },
  "message": "Procurement Center data saved successfully.",
  "status": 200
}
```


Master 9: Season Master

S. No.	Parameter	Data Type	Description/Purpose	Required
1	procurement_season_id	Integer	Ex-any numeric 125,356 Combination of Season (KMS / RMS)/marketing year/commodity procured/crop type	Y
2	marketing_season	Integer	1-KMS (Kharif marketing season) 2-RMS (Rabi marketing season)	Y
3	marketing_year	character varying(9)	2021-2022 (Financial Year)	Y
4	commodity_procured_id	Integer	Refer- Commodity procured master	Y
5	crop_type_id	Integer	1- Kharif crop 2- Rabi crop	Y
6	msp_rate	Real		
7	varying_rate	Real		
8	lgd_state_code	Integer		Y
9	season_start_date	character varying(10)	Start date of procurement season - DD-MM-YYYY	Y
10	season_end_date	character varying(10)	Start date of procurement season - DD-MM-YYYY	Y
11	milling_start_date	character varying(10)	Start date of milling period. DD-MM-YYYY	Y - in case of paddy
12	milling_end_date	character varying(10)	End date of milling period. DD-MM-YYYY	Y - in case of paddy
13	Active	Integer	Active or Inactive 0-Inactive 1-Active	Y

Web Service Type: Master Web Service 9

Web Service Name: Season Master

Method: GET

URL:<domain>/cfpp/listSeasons

Note: <domain> may be kept as a variable, since domain name may change.

Response JSON:

```
{
  "procurement_season_id": 1,
  "marketing_season": 1
  "marketing_year": "2021-2022",
  "commodity_procured_id": 1
  "crop_type_id": 1,
  "msp_rate": 12.22,
  "varying_rate": 14.22,
  "lgd_state_code": 1
  "season_start_date": "10-10-2021",
  "season_end_date": "10-10-2021",
  "milling_start_date": "10-10-2021",
  "milling_end_date": "10-10-2021"
}
```

Master 10: LGD State Master

S. No.	Parameter	Data Type	Description/Purpose	Required
1	lgd_state_code	integer		Y
2	lgd_state_name_en	character varying(99)		Y
3	state_name_ll	character varying(99)		O
4	Active	integer	Active or Inactive 0-Inactive 1-Active	Y

Web Service Type: Master Web Service 10

Web Service Name: State Master

Method: GET

URL:<domain>/cfpp/listStates

Note: <domain> may be kept as a variable, since domain name may change.

Response JSON:

```
{
  "lgd_state_code": "1",
  "lgd_state_name_en": "Jammu & kashmir",
}
```

```
"state_name_ll": "Jammu & kashmir"
}
```

Master 11: LGD District Master

S. No.	Parameter	Data Type	Description/Purpose	Required
1	lgd_state_code	integer		Y
2	lgd_district_code	integer		Y
3	lgd_district_name_en	character varying(99)		Y
4	district_name_ll	character varying(99)		O
5	Active	integer	Active or Inactive 0-Inactive 1-Active	Y

Web Service Type: Master Web Service 11

Web Service Name: District Master

Method: GET

URL:<domain>/cfpp/listDistrict/{state_code}

Note: <domain> may be kept as a variable, since domain name may change.

Response JSON:

```
{
"lgd_state_code": "1",
"lgd_district_code": "656",
"lgd_district_name_en": "TEST",
"district_name_ll": "TEST"
}
```

Master 12: LGD Tehsil Master (sub district master/taluk/mandal)

S. No.	Parameter	Data Type	Description/Purpose	Required
1	lgd_state_code	integer		Y
2	lgd_district_code	integer		Y
3	lgd_tehsil_code	integer		Y

4	lgd_tehsil_name_en	character varying(99)		Y
5	tehsil_name_ll	character varying(99)		O
6	active	integer	Active or Inactive 0-Inactive 1-Active	Y

Web Service Type: Master Web Service 12

Web Service Name: Tehsil Master

Method: GET

URL:<domain>/cfpp/listTehsil/{state_code}

Note: <domain> may be kept as a variable, since domain name may change.

Response JSON:

```
{
"lgd_state_code": "1",
"lgd_district_code": "123",
"lgd_tehsil_code": "123",
"lgd_tehsil_name_en": "Jammu",
"tehsil_name_ll": "Jammu"
}
```

Master 13: LGD Village Master

S. No.	Parameter	Data Type	Description/Purpose	Required
1	lgd_state_code	integer		Y
2	lgd_district_code	integer		Y
3	lgd_tehsil_code	integer		Y
4	lgd_village_code	integer		Y
5	lgd_village_name_en	character varying(99)		Y
6	village_name_ll	character varying(99)		O
7	Active	integer	Active or Inactive 0-Inactive 1-Active	Y

Web Service Type: Master Web Service 13

Web Service Name: Village Master

Method: GET

URL:<domain>/cfpp/listVillage/{state_code}

Note: <domain> may be kept as a variable, since domain name may change.

Response JSON:

```
{
  " lgd_state_code": "1",
  " lgd_district_code": "123",
  " lgd_tehsil_code": "123",
  " lgd_village_code": "123",
  " lgd_village_name_en": "Jammu",
  " village_name_ll": "Jammu"
}
```

Master 14: Procuring Agency

S. No.	Parameter	Data Type	Description/Purpose	Required
1.	procuring_agency_id	integer	Ex-any numeric 125,356	Y
2.	procurer_type_id	Integer	Type of procuring agency procuring_agency_type_master	Y
3.	marketing_season	Integer	1-KMS (Kharif marketing season) 2-RMS (Rabi marketing season)	Y
4.	marketing_year	character varying(9)	2021-2022 (Financial Year)	Y
5.	crop_type_id	integer	1- Kharif crop 2- Rabi crop	Y
6.	procuring_agency_name	character varying(50)	Name of the procuring agency(FCI/NAFED/PUNSUP etc)	Y
7.	procuring_agency_name_abbrev	character varying(10)	Abbreviation of Procuring agency	Y
8.	lgd_state_code	integer		Y

S. No.	Parameter	Data Type	Description/Purpose	Required
9.	Active	integer	Active or Inactive 0-Inactive 1-Active	Y

Web Service Type: Master Web Service 14

Web Service Name: Procuring Agency

Method: POST

URL: <domain>/cfpp/procuringAgency/{client_id}

Note: <domain> may be kept as a variable, since domain name may change.

Request JSON:

```
{
"procuring_agency_id ": "125",
"marketing_season ":1,
"marketing_year":2021-2022,
"crop_type_id":2,
"procurer_type_id":2,
"procuring_agency_name": " National Agricultural Cooperative Marketing Federation of India ",
"procuring_agency_name_abbr ": "NAFED",
"lgd_state_code": "1",
}
```

Response JSON:

```
{
"data": {
"client_id": "1",
"transaction_id": "1232125",
"service_code": "PROAGN",
"transaction_status": "SUCCESS",
"transaction_remarks": "Data Uploaded",
"data_landing_timestamp": "2021-08-22 09:47:37.895",
"acknowledgement_no": "220820211232125"
},
"message": "Procuring Agency data saved successfully.",
"status": 200
}
```

Master 15: Procuring Agency Type Master

S. No.	Parameter	Data Type	Description/Purpose	Required
1.	procurer_type_id	Integer	Type of procuring agency procuring_agency_type_maste r	Y
2.	procurer_type_name	character varying(50)	Name of the procuring agency(FCI/NAFED/PUNSUP etc)	Y
3.	procurer_type_abbr	character varying(10)	Abbreviation of Procuring agency	Y
4.	Active	integer	Active or Inactive 0-Inactive 1-Active	Y

Web Service Type: Master Web Service 15

Web Service Name: Procuring Agency Type Master

Method: GET

URL: <domain>/cfpp/listProcuringAgencyTypes

Note: <domain> may be kept as a variable, since domain name may change.

Response JSON:

```
{
"procuring_type_id": "125",
"procuring_type_name": " National Agricultural Cooperative Marketing Federation of India ",
"procuring_type_abbr": "NAFED",
"active": "1",
}
```

4. Basic information related to Central Food Grains Procurement Portal

- ❖ NFPP and CFPP are 2 different portals. The granularity of the both the portals are different. Data has to be pushed for both portals.
- ❖ The portal link is <http://cfpp.nic.in>. This may get changed.
- ❖ The credentials and procedure for sending the data shall be shared by FCI HQ.

5. API's URL and Token Generation

NIC has developed a tool using Swagger, for testing the API's and token generation. For token generation the following path is to be followed by the respective State:

- Visit the URL http://cfpp.nic.in/cfpp/swagger_cfpp
- Reach the service --- Authentication Service -> /login
- Click on "Try it out"
- In the Schema dialog box, State user shall have to provide the user name and password as provided to them by FCI / NIC.
- After entering the provided username and password, click on "Execute"
- The generated token will be displayed in the "Response Body" dialog box.
- Copy the token which is within double quotes.
- Scroll up to reach the top of the page.
- The Authorize button shall be visible with open lock, which indicates an unauthorized service user.
- Click on the "Authorize" button.
- In the dialog box which shall appear, paste the token, and click on 'Authorize'.
- Now, the user is authorized. User should click on 'Close' and **not on "Logout"**
- Now, the user is authorized to use any service both for posting and getting data.

Before Pushing data to CFPP server token has to be generated. For this, hit the login service for authentication and this service will generate the token in response. The generated token has to be passed in the header under Authorization tag.

****Important: Please put Bearer before token.**

For example:

Bearer

eyJhbGciOiJIUzUxMiJ9.eyJzdWwiOiJhbml0YXNoYXJtYSIsImV4cCI6MTYzMjMwNDExOSwiaWF0IjoxNjMyMTE5fQ.LuMMmJ9dPHYlI8sPUOqoDu09ETCUI8T651gAebusGhV-U_s8F6JxIFGQQxj09tf4Y00EwlbOWvdugzLTNb-Yw

6. Sample URL's

Sl. No.	Webservice Name	Service URL	Transactional/ Master	Method
1.	FARMER REGISTRATION	http://cfpp.nic.in/cfpp/farmer_registration/{client_id}	Transactional	Post
2.	PROCUREMENT	http://cfpp.nic.in/cfpp/procurement/{client_id}	Transactional	Post
3.	MSP PAYMENT	http://cfpp.nic.in/cfpp/msp_payment/{client_id}	Transactional	Post
4.	DISPATCH OF COMMODITY	http://cfpp.nic.in/cfpp/dispatch_of_commodity/{client_id}	Transactional	Post
5.	RECEIPT OF COMMODITY	http://cfpp.nic.in/cfpp/receipt_of_commodity/{client_id}	Transactional	Post
6.	SUPPLEMENTARY BILL	http://cfpp.nic.in/cfpp/supplementary_bill/{client_id}	Transactional	Post
7.	COMMODITY PROCURED	http://cfpp.nic.in/cfpp/listCommodityProcured	Master	Get
8.	DEPOT TYPE	http://cfpp.nic.in/cfpp/listDepotType	Master	Get
9.	FARMER ID TYPES	http://cfpp.nic.in/cfpp/listFarmerIdTypes	Master	Get
10.	FARMER LAND OWNERSHIP CATEGORY	http://cfpp.nic.in/cfpp/listFarmerLandOwnershipCategory	Master	Get
11.	FARMER SOCIAL CATEGORY	http://cfpp.nic.in/cfpp/listFarmerSocialCategory	Master	Get
12.	GRADE VARIETY	http://cfpp.nic.in/cfpp/listGradeVariety	Master	Get
13.	OWNERSHIP TYPES	http://cfpp.nic.in/cfpp/listOwnershipTypes	Master	Get
14.	PROCUREMENT CENTER	http://cfpp.nic.in/cfpp/procurement_center/{client_id}	Master	Post
15.	SEASONS	http://cfpp.nic.in/cfpp/listSeasons	Master	Get
16.	LGD STATES MASTER	http://cfpp.nic.in/cfpp/listStates	Master	Get

17.	LGD DISTRICT MASTER	http://cfpp.nic.in/cfpp/listDistrict/{state_code}	Master	Get
18.	LGD TEHSIL MASTER	http://cfpp.nic.in/cfpp/listTehsil/{state_code}	Master	Get
19.	LGD VILLAGE MASTER	http://cfpp.nic.in/cfpp/listVillage/{state_code}	Master	Get
20.	PROCURING AGENCY	http://cfpp.nic.in/cfpp/ProcuringAgency	Master	Post
21.	PROCURING AGENCY TYPE MASTER	http://cfpp.nic.in/cfpp/listProcuringAgencyTypes	Master	Get

7. Web Services Validation

S. No.	Farmer Registration	Procurement	MSP Payment	Dispatch of commodity	Receipt of commodity	Supplementary Bill
1.	Data already exists for combination : Farmer_id, Farmer_id_card_number, Gender, Ownership_type_id, Farmer_land_ownership_category_id, Caste_category_id, Procurement_season_id	Data already exists for combination : farmer_id, procurement_season_id, procurement_receipt_id	Data already exists for combination : farmer_id, procurement_season_id, procurement_receipt_id	Invalid Client id	Invalid Client id	Invalid Client id
2.	Farmer Id should have minimum 2 and maximum 20 characters	Farmer Id should have minimum 2 and maximum 20 characters	Farmer Id should have minimum 2 and maximum 20 characters	Invalid State Code	Invalid State Code	Invalid State Code
3.	Marketing season should have minimum 1 and maximum 2	Marketing season should have minimum 1 and maximum 2	Marketing season should have minimum 1 and maximum 2	Invalid Season Id(Invalid Season Id is combination of procurement_season_id+marketing_season+marketing_year+crop_type_id+lgd_state_code)	Invalid Season Id(Invalid Season Id is combination of procurement_season_id+marketing_season+marketing_year+crop_type_id+lgd_state_code)	Invalid Season Id(Invalid Season Id is combination of procurement_season_id+marketing_season+marketing_year+crop_type_id+lgd_state_code)
4.	Marketing_year should not more than 9 characters	Marketing_year should not more than 9 characters	Marketing_year should not more than 9 characters	Invalid District Code	Invalid District Code	Invalid Marketing Year
5.	Crop_type_id should have minimum 1 and maximum 2	Crop_type_id should have minimum 1 and maximum 2	Crop_type_id should have minimum 1 and maximum 2	Invalid Marketing Year	Invalid Marketing Year	Invalid State Code in Transaction Id
6.	Farmer Id should have minimum 2 and maximum 99 characters	Procurement_center_farm_gate_id should have minimum 2 and maximum 20 characters	Procuring_agency_id can't be blank or null	Invalid State Code in Transaction Id	Invalid State Code in Transaction Id	Invalid Transaction Id
7.	Farmer_id_card_type should have minimum 1 and maximum 7	Date_of_procurement should have 10 characters Format : DD-MM-YYYY	aadhaar_pfms_enabled_payment should have minimum 1 and maximum 3	Invalid Transaction Id	Invalid Transaction Id	Duplicate Transaction Id
8.	Farmer_id_card_number should have minimum 2 and maximum 30 characters	Grade_variety_id should have minimum 1 and maximum 7	Invalid Client id	Duplicate Transaction Id	Duplicate Transaction Id	Marketing season should have minimum 1 and maximum 2
9.	Gender should have minimum 1	Procurement_receipt_id	Invalid State Code	Marketing season should	Marketing season should	Marketing year should

S. No.	Farmer Registration	Procurement	MSP Payment	Dispatch of commodity	Receipt of commodity	Supplementary Bill
	and maximum 4	should Not Less than 1 characters Not more than 20 characters		have minimum 1 and maximum 2	have minimum 1 and maximum 2	not more than 9 characters
10.	Age should have minimum 1 and maximum 120	Invalid Client id	Invalid Season Id(Invalid Season Id is combination of procurement_season_id+marketing_season+marketing_year+crop_type_id+lgd_state_code)	Marketing year should not more than 9 characters	Marketing year should not more than 9 characters	Crop type id should have minimum 1 and maximum 2
11.	Farmer_address should have minimum 2 and maximum 200 characters	Invalid State Code	Invalid District Code	Crop type id should have minimum 1 and maximum 2	Crop type id should have minimum 1 and maximum 2	supply_bill_no (Bill of supply number) should have been already sent in Receipt of commodity service
12.	Ownership_type_id should have minimum 1 and maximum 6	Invalid Season Id(Invalid Season Id is combination of procurement_season_id+marketing_season+marketing_year+crop_type_id+lgd_state_code)	Invalid Marketing Year	Procurement_center_farm_gate_id should have minimum 2 and maximum 20 characters	supply_bill_date Mandatory if supply bill number is provided	supplementary_bill_date Format : DD-MM-YYYY
13.	Land_records_verified should have minimum 1 and maximum 2	Invalid District Code	Invalid State Code in Transaction Id	Grade_variety_id should have minimum 1 and maximum 7	supply_bill_amount Mandatory if supply bill number is provided	
14.	Farmer_land_ownership_category_id should have minimum 1 and maximum 6	Invalid Marketing Year	Invalid Transaction Id		invoice_date Mandatory if invoice number is provided	
15.	Khasra_no can't be blank or null	Invalid State Code in Transaction Id	Duplicate Transaction Id		invoice_amount Mandatory if invoice number is provided	
16.	Khata_no can't be blank or null	Invalid Transaction Id	MSP Payment date : Format : DD-MM-YYYY			
17.	Caste_category_id should have minimum 1 and maximum 5	Duplicate Transaction Id				
18.	Land_area_in_hectares should have some value					

