

# Government eMarketplace (GeM)

GeM SOP for Integrating Payment System of CPSUs and  
other entities using ERP with GeM Platform

Version 1.1





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## 1. Metadata of the Standard

| S. No. | Data elements            | Values                                                                                                                                                   |
|--------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.     | <b>Title</b>             | GeM SOP - Integrating Payment System of CPSUs and other entities using ERP with GeM Platform, Version 1.1                                                |
| 2.     | <b>Drafted by</b>        | Dr Rajesh Narang, CTO, GeM                                                                                                                               |
| 3.     | <b>Approval</b>          | Competent authority of GeM                                                                                                                               |
| 4.     | <b>Publisher</b>         | GeM                                                                                                                                                      |
| 5.     | <b>Brief Description</b> | This document covers the SOP for Integrating Payment System of CPSUs and other government entities using ERP, with GeM Platform for seamless transaction |
| 6.     | <b>Target Audience</b>   | <ul style="list-style-type: none"> <li>Designated officer of CPSU and other government entities using ERP</li> <li>GeM officials</li> </ul>              |
| 7.     | <b>Document Number</b>   | GeM/SOP/ERP_Govt_entity_PSU/V1.1                                                                                                                         |

## 2. Abbreviation

| S.No. | Abbreviation | Description                                  |
|-------|--------------|----------------------------------------------|
| 1.    | CPSU         | Central Public Sector Undertaking            |
| 2.    | CRAC         | Consignee receipt and acceptance certificate |
| 3.    | DP           | Delivery Period                              |
| 4.    | ERP          | Enterprise Resource Planning                 |
| 5.    | FMS          | Financial Management System                  |
| 6.    | GeM          | Government eMarketplace                      |
| 7.    | GFR          | General Financial Rules                      |
| 8.    | JSON         | JavaScript Object Notation                   |
| 9.    | PRC          | Provisional receipt certificate              |
| 10.   | PSU          | Public Sector Undertaking                    |
| 11.   | RA           | Reverse Auction                              |
| 12.   | SGPA         | State GeM Pool Account                       |
| 13.   | SLA          | Service level agreement                      |
| 14.   | SOP          | Standard operating procedure                 |
| 15.   | T&C          | Terms and condition                          |
| 16.   | UAT          | User acceptance testing                      |
| 17.   | VAN          | Virtual account number                       |

### 3. Introduction

Most of the CPSUs and other government entities, have implemented ERP solutions for supporting the functioning of the organization, including procurement. These ERP solutions, depending upon the scale and functionality of implementation, cater to the requirement ranging from and including:

- Human Resource.
- Inventory.
- Sales & Marketing.
- Purchase.
- Finance & Accounting.
- Customer Relationship Management(CRM)
- Engineering/ Production.

The various ERP packages being used by the CPSU include COTS ERP solution like SAP – being used by ONGC, NTPC and Oracle – being used by BPCL or Bespoke developed ERP solutions.

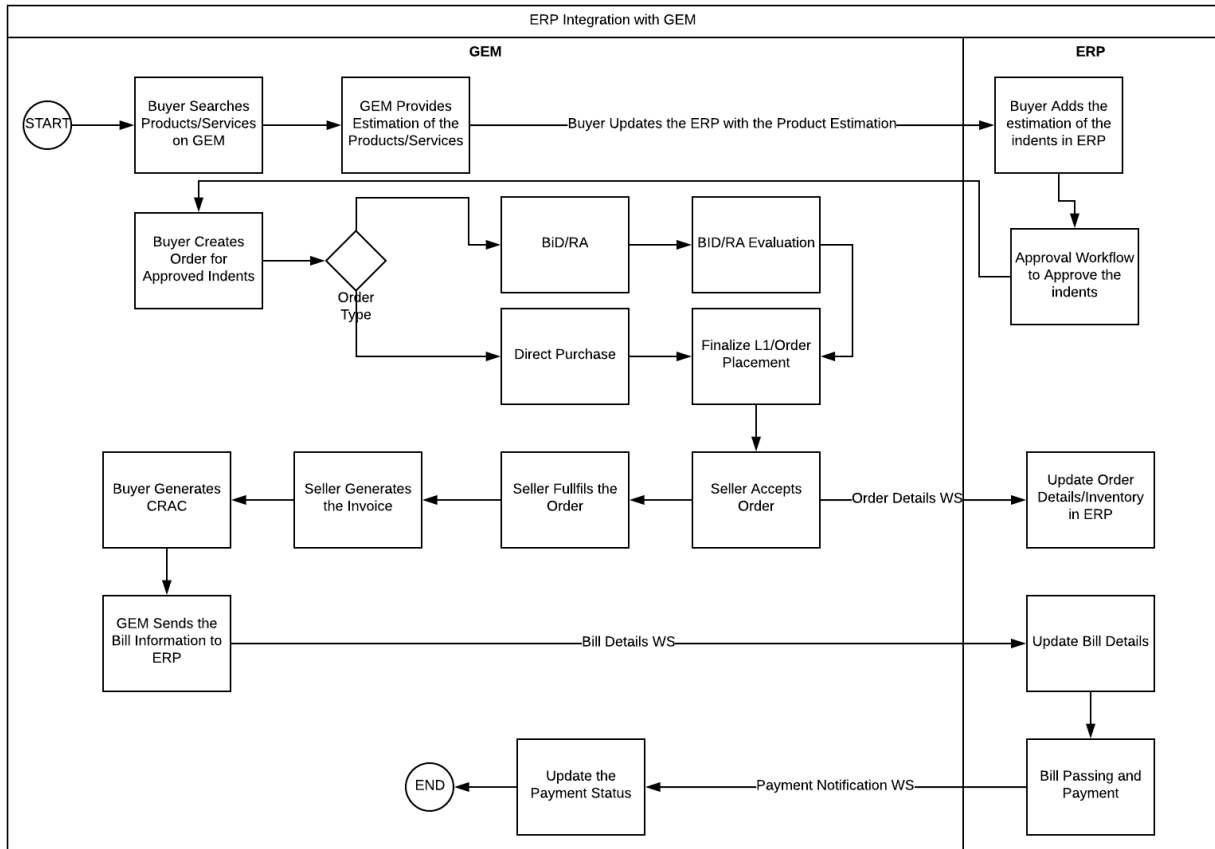
At present, each CPSU procures the products and services using their own ERP. However, the ERP does not provide the dynamic and real time prices of the products which are available on GeM Portal. Moreover, as per GFR rule 149, PSUs are mandated to procure the products through GeM marketplace.

For Onboarding the CPSUs and such other government entities, GeM Portal has created a generic integration framework to integrate them. The buyers of such entities who use the ERP for procurement will require to register on GeM, with unique IDs. The PSU would be required to share the details of their existing and empaneled suppliers with GeM for onboarding. The entities are also requested to communicate the need to register on GeM, to their suppliers. Once registered on GeM portal the offered products and services of such suppliers will be available for procurement on GeM Portal.

A buyer will be able to procure product and services and specify the consignees where the product is to be delivered. The GeM marketplace will maintain the order details and generate the contract between the buyer and seller. The order summary and order details will be shared with the ERP via a web service (if integrated). The GeM marketplace will also maintain the bill summary and bill details, CRAC details and will share with the ERP via a Web Service.

## 4. Common flow for procurement through GeM and integration touch points between GeM & ERP system of CPSU

1. The buyer has access to both GeM Portal and ERP. The buyer logs into GeM portal, searches for the desired products and services, selects the most suitable among them, compares their prices for 3 OEMs and uses the prices for taking approval in his/her organization. The comparison sheet becomes a critical artifacts for future use, hence it is stored and saved on the GeM System.
2. On getting the approval, the buyer will place an order on GeM (direct purchase or BID/RA)
3. On acceptance of the order by seller, the GeM will send the order details to ERP via order summary and order details web services.
4. On fulfillment of the order by the seller, the buyer will generate the CRAC on GeM.
5. On generation of CRAC, the GeM portal will send the bill details to the ERP via web services bill summary and bill details..
6. The buyer will make the payment to the seller in ERP system and ERP system will update the GeM on payment status via web service.
7. The GeM will extend the functions of post contact management for products and services and will create the required services to share with the ERP.



## 5. Web services for integration with ERP

All service are RESTFULL and the data will be exchanged between GeM portal and the ERP system of the PSUs, using the following:

- Transport protocol – Https
- Data Format – JSON
- Mode of communication - asynchronous.

Below are the details of the web services which the ERP system of PSU need to consume after understanding of new json response structure.

### Input parameters

| End Point                             | Request Method | Key    | Value(json)                                                  | Response format |
|---------------------------------------|----------------|--------|--------------------------------------------------------------|-----------------|
| http://125.19.30.195/webservices/webs | POST           | s_data | { "user": "Entityname", "pass": "*****", "method": "login" } | Auth Token      |

## Output fields

| Field Name | Length     | Type   | Mandatory | Values | Parent Element |
|------------|------------|--------|-----------|--------|----------------|
| Token      | Max<br>610 | String | TRUE      | String |                |

## Order Summary

## Input Parameters

| End Point                             | Request Method | Key    | Value(json)                                                                                                                                                | Response format |
|---------------------------------------|----------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| http://125.19.30.195/webservices/webs | POST           | s_data | { "user": "Entityname", "method": "ordersummary", "as_on": "YYYY-MM-DD", "from_date": "YYYY-MM-DD", "to_date": "YYYY-MM-DD", "offset": "0", "limit": "1" } | Json            |

## Request Parameters

| Parameter Name | Type             | Mandatory                           |
|----------------|------------------|-------------------------------------|
| as_on          | Date(YYYY-MM-DD) | TRUE (if from_date/to_date not set) |
| from_date      | Date(YYYY-MM-DD) | TRUE (if as_on/to_date not set)     |
| to_date        | Date(YYYY-MM-DD) | TRUE (if from_date is set)          |
| Offset         | Int              | TRUE                                |
| Limit          | Int              | TRUE                                |

## Parameters description

- as\_on:** When this parameter exists in service request, the response only work according to the particular set date. It will only work for single date record. For date range(from\_date and to\_date) treat as disable.



2. **from\_date** : It will response all the record from requested date with offset & limit value. The As\_On parameter should not exist in the Request.
3. **to\_date** : This parameter will not work without from\_date.
4. **offset** : When this parameter is set. The response will come as per the value of offset. If the Offset value is set to 5, the Response will start from the 5<sup>th</sup> record till the limit record.
5. **limit** : limit is the number of records.

## Output fields

| Field Name | Length | Type    | Mandatory | Values                                                  | Parent Element |
|------------|--------|---------|-----------|---------------------------------------------------------|----------------|
| Body       |        |         |           |                                                         |                |
| Status     | 4      | String  | TRUE      | Suss/fail                                               | Body           |
| Sub        | 13     | String  | TRUE      | This is the Subject of the service.<br>Order Summary    | Body           |
| Aud        | 4      | String  | TRUE      | This is used for Customer identification.<br>Entityname | Body           |
| Iss        | 3      | String  | TRUE      | This is used for Source identification.<br>GEM          | Body           |
| Iat        | 10     | Numeric | TRUE      | Timestamp of the record                                 | body           |
| Date       | 20     | Date    | TRUE      |                                                         | body           |
| Count      | 100    | Numeric | TRUE      |                                                         | body           |

Entity will make a call to our web service exposed by RESTFUL layer which will internally make call to our database. RESTFUL layer will immediately respond back to entity with relative response as per requested parameters.

## Get Order Details

Entity will make a call to our web service exposed by RESTFUL layer which will internally make call to our database. RESTFUL layer will immediately respond back to entity with relative response as per requested parameters. Get Order service will return the all details of order.

## Input parameters

| End Point                             | Request Method | Key    | Value(json)                                                                                                                                                | Response format |
|---------------------------------------|----------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| http://125.19.30.195/webservices/webs | POST           | s_data | { "user": "Entityname", "method": "get orders", "as_on": " YYYY-MM-DD", "from_date": "YYYY-MM-DD", "to_date": " YYYY-MM-DD", "offset": "0", "limit": "1" } | Json            |

## Request Parameters

| Parameter Name | Type             | Mandatory                           |
|----------------|------------------|-------------------------------------|
| as_on          | Date(YYYY-MM-DD) | TRUE (if from_date/to_date not set) |
| from_date      | Date(YYYY-MM-DD) | TRUE (if as_on/to_date not set)     |
| to_date        | Date(YYYY-MM-DD) | TRUE (if from_date is set)          |
| offset         | Int              | TRUE                                |
| limit          | Int              | TRUE                                |

## Parameters description

- as\_on** : When this parameter exists in service request, the response only work according to the particular set date. It will only work for single date record. For date range(from\_date and to\_date) treat as disable.
- from\_date** :It will response all the record from requested date with offset & limit value. The As\_On parameter should not exist in the Request.
- to\_date** : This parameter will not work without from\_date.
- offset** : When this parameter is set. The response will come as per the value of offset. If the Offset value is set to 5, the Response will start from the 5<sup>th</sup> record till the limit record.
- limit** : limit is basically number of records.

## Output fields

| Field Name      | Length | Type    | Mandatory | Values                                  | Parent Element |
|-----------------|--------|---------|-----------|-----------------------------------------|----------------|
| Body            |        |         |           |                                         |                |
| Status          | 4      | String  | TRUE      | Suss                                    | body           |
| Sub             | 13     | String  | TRUE      | Order Summary                           | body           |
| Aud             | 4      | String  | TRUE      | Entityname                              | body           |
| Iss             | 3      | String  | TRUE      | GEM                                     | body           |
| Iat             | 10     | Numeric | TRUE      | Timestamp                               | body           |
| OrderId         | 20     | String  | TRUE      | Unique Order Id                         | body           |
| entity_code     | 5      | Numeric | TRUE      | Code specific to the Buyer Organization | body           |
| depot_code      | 5      | Numeric | TRUE      | Code specific to the Buyer Organization | body           |
| depot_name      | 100    | String  | TRUE      | Code specific to the Buyer Organization | body           |
| depot_type      | 10     | String  | TRUE      | Code specific to the Buyer Organization | body           |
| auc_description | 100    | String  | TRUE      | Accounting description                  | body           |
| auc_code        | 10     | Numeric | TRUE      | Accounting unit code                    | body           |

| Field Name            | Length | Type    | Mandatory | Values                     | Parent Element |
|-----------------------|--------|---------|-----------|----------------------------|----------------|
| auc_short_description | 20     | String  | TRUE      | Accounting unit short form | body           |
| auc_type              | 4      | String  | TRUE      | Accounting unit type       | body           |
| Organization          | 20     | String  | TRUE      |                            | body           |
| buyerName             | 20     | String  | TRUE      |                            | body           |
| buyerAddress          | 255    | String  | TRUE      |                            | body           |
| vendorName            | 20     | String  | TRUE      |                            | body           |
| vendorAddress         | 255    | String  | TRUE      |                            | body           |
| vendorCode            | 20     | String  | TRUE      |                            | body           |
| vendorDistrict        | 20     | String  | TRUE      |                            | body           |
| vendorState           | 20     | String  | TRUE      |                            | body           |
| vendorPin             | 6      | Numeric | TRUE      |                            | body           |
| vendorBankAccountNo   | 25     | Numeric | TRUE      |                            | body           |
| vendorBankIfsc        | 20     | String  | TRUE      |                            | body           |
| vendorPan             | 12     | String  | TRUE      |                            | body           |
| vendorGstn            | 30     | String  | TRUE      |                            | body           |
| supplyOrderNo         |        |         |           |                            |                |
| supplyOrderDate       | Date   | Date    | TRUE      |                            | body           |
| faAdminDesignation    | 100    | String  | TRUE      |                            | body           |

| Field Name         | Length | Type    | Mandatory | Values   | Parent Element |
|--------------------|--------|---------|-----------|----------|----------------|
| ifaConcurrence     | 2      | Numeric | TRUE      |          | body           |
| ifdNumber          | 100    | String  | TRUE      | OPTIONAL | body           |
| ifdDate            | Date   | Date    | TRUE      | OPTIONAL | body           |
| productCode        | 20     | String  | TRUE      |          | body           |
| productName        | 100    | String  | TRUE      |          | body           |
| productBrand       | 100    | String  | TRUE      |          | body           |
| totalValue         | 15,2   | Float   |           |          | body           |
| consignee_Fname    | 20     | String  | TRUE      |          | body           |
| consignee_Lastname | 20     | String  | TRUE      |          | body           |
| consignee_state    | 20     | String  | TRUE      |          | body           |
| consignee_district | 20     | String  | TRUE      |          | body           |
| consignee_pin      | 6      | Numeric | TRUE      |          | body           |
| consignee_address  | 255    | String  | TRUE      |          | body           |
| consignee_mobile   | 13     | Numeric | TRUE      |          | body           |
| GST                | 20     | Numeric | TRUE      |          | Body           |
| • CGST             | 20     | Numeric | TRUE      |          | Body           |
| • SGST_UTGST_IGST  | 20     | Numeric | TRUE      |          | Body           |
| • Cess             | 20     | Numeric | TRUE      |          | Body           |

| Field Name           | Length | Type    | Mandatory | Values | Parent Element |
|----------------------|--------|---------|-----------|--------|----------------|
| expectedDeliveryDate | Date   | Date    | TRUE      |        | body           |
| quantityOrdered      | 10     | Numeric | TRUE      |        | body           |
| unitPrice            | 15,2   | Float   | TRUE      |        | body           |
| quantityUnitType     | 10     | String  | TRUE      |        | body           |

## Json Structure Changes

As per new structure for bunch items we have used new hierarchy where we have placed the multiple product inside the consignee level. Below is the structure for bunch item.

```
{  
  
  "status": "suss",  
  
  "data": {  
  
    "sub": "Orders",  
  
    "aud": "Entityname",  
  
    "iss": "GeM",  
  
    "iat": 1523510348,  
  
    "data": [{  
  
      "auCode": "",  
  
      "auDesc": "",  
  
      "auShortDesc": "",  
  
      "auType": "",  
  
      "buyerAddr": "",  
  
      "buyerDistrict": "",  
  
      "buyerEmail": "",  
  
      "buyerGstn": "",  
  
      "buyerMobile": "",  
  
      "buyerName": "",  
  
      "buyerOrg": "",  
  
      "buyerPincode": "",  
  
      "buyerState": "",
```

```
"consignmentDetails": [{  
    "consignee_Fname": "",  
    "consignee_Lastname": "",  
    "consignee_state": "",  
    "consignee_district": "",  
    "consignee_pin": "",  
    "consignee_address": "",  
    "consignee_mobile": "",  
    "products": [{  
        "productCode": "",  
        "productName": "",  
        "productBrand": "",  
        "totalValue": "",  
        "expectedDeliveryDate": "",  
        "quantityOrdered": "",  
        "unitPrice": "",  
        "quantityUnitType": ""  
    },  
    {  
        "productCode": "",  
        "productName": "",  
        "productBrand": "",  
        "totalValue": "",  
        "expectedDeliveryDate": "",  
        "quantityOrdered": "",
```



```
        "unitPrice": "",  
        "quantityUnitType": ""  
    }  
]  
  
}],  
  
"demandId": "",  
  
"depotCode": "",  
  
"depotName": "",  
  
"depotType": "",  
  
"designationFinancial": "",  
  
"ifdConcurrence": "",  
  
"ifdDiaryDate": "",  
  
"ifdDiaryNo": "",  
  
"orderAmount": "",  
  
"orderDate": "",  
  
"orderId": "",  
  
"entityCode": "",  
  
"sellerId": "",  
  
"status": "",  
  
"supplyOrderDate": "",  
  
"supplyOrderNo": "",  
  
"vendorAddress": "",  
  
"vendorBankAccountNo": "",  
  
"vendorBankIfscCode": "",  
  
"vendorCode": "",
```

```

        "vendorDistrict": "",
        "vendorGstn": "",
        "vendorName": "",
        "vendorPan": "",
        "vendorPincode": "",
        "vendorState": ""
    }
}
}

```

## Bill Summary

Entity will make a call to our web service exposed by RESTFUL layer which will internally make call to our database. RESTFUL layer will immediately respond back to entity with relative response as per requested parameters.

## Input parameters

| End Point                              | Request Method | Key    | Value(json)                                                                                                                                                  | Response format |
|----------------------------------------|----------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| http://125.19.30.195/web services/webs | POST           | s_data | { "user": "Entityname", "method": "billsu mmary", "as_on": " YYYY-MM-DD", "from_date": "YYYY-MM-DD", "to_date": " YYYY-MM-DD", "offset": "0", "limit": "1" } | Json            |

## Request Parameters

| Parameter Name | Type             | Mandatory                           |
|----------------|------------------|-------------------------------------|
| as_on          | Date(YYYY-MM-DD) | TRUE (if from_date/to_date not set) |
| from_date      | Date(YYYY-MM-DD) | TRUE (if as_on/to_date not set)     |
| to_date        | Date(YYYY-MM-DD) | TRUE (if from_date is set)          |

| Parameter Name | Type | Mandatory |
|----------------|------|-----------|
| Offset         | Int  | TRUE      |
| Limit          | Int  | TRUE      |

## Parameters description

1. **as\_on** : When this parameter exists in service request, the response only work according to the particular set date. It will only work for single date record. For date range(from\_date and to\_date) treat as disable.
2. **from\_date** :It will response all the record from requested date with offset & limit value. The As\_On parameter should not exist in the Request.
3. **to\_date** : This parameter will not work without from\_date.
4. **offset** : When this parameter is set. The response will come as per the value of offset. If the Offset value is set to 5, the Response will start from the 5<sup>th</sup> record till the limit record.
5. **limit** : limit is basically number of records.

## Output Parameters

| Field Name   | Length | Type    | Mandatory | Values                  | Parent Element |
|--------------|--------|---------|-----------|-------------------------|----------------|
| Body         |        |         |           |                         |                |
| Status       | 4      | String  | TRUE      | suss                    | body           |
| Sub          | 13     | String  | TRUE      | Bill Summary            | body           |
| Aud          | 4      | String  | TRUE      | Entityname              | body           |
| Iss          | 3      | String  | TRUE      | GEM                     | body           |
| Iat          | 10     | Numeric | TRUE      |                         | Body           |
|              | 100    | String  | TRUE      |                         | Body           |
| Date         | 20     | Date    | TRUE      |                         | Body           |
| gemInvoiceNo | 20     | String  | TRUE      | Unique number(Multiple) |                |
| Count        | 100    | Numeric | TRUE      |                         | Body           |

## Below are the sample json output:

```
{ "status": "suss",
  "data": {
```

```
"sub": "bills Summary",  
  
"aud": "Entityname",  
  
"iss": "GeM",  
  
"iat": 1523436878,  
  
"data": [{  
  
    "date": "YYYY-MM-DD",  
  
    "count": "1",  
  
    "amount": "",  
  
    "gemInvoiceNos": [{  
  
        "gemInvoiceNo": ""  
  
    }]  
  
}, {  
  
    "date": "YYYY-MM-DD",  
  
    "count": "2",  
  
    "amount": "",  
  
    "gemInvoiceNos": [{  
  
        "gemInvoiceNo": ""  
  
    }], {  
  
        "gemInvoiceNo": ""  
  
    }]  
  
}]  
  
}  
  
}
```

**Get Bill Details**

Entity will make a call to our web service exposed by RESTFUL layer which will internally make call to our database. RESTFUL layer will immediately respond back to entity with relative response as per requested parameters. Get Bill service will return the all details of Bill after confirmation of buyer bill process.

## Input parameters

| End Point                              | Request Method | Key    | Value(json)                                                                                                                                            | Response format |
|----------------------------------------|----------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| http://125.19.30.195/web-services/webs | POST           | s_data | { "user": "Entityname", "method": "getbills", "as_on": "YYYY-MM-DD", "from_date": "YYYY-MM-DD", "to_date": "YYYY-MM-DD", "offset": "0", "limit": "1" } | Json            |

## Request Parameters

| Parameter Name | Type             | Mandatory                           |
|----------------|------------------|-------------------------------------|
| as_on          | Date(YYYY-MM-DD) | TRUE (if from_date/to_date not set) |
| from_date      | Date(YYYY-MM-DD) | TRUE (if as_on/to_date not set)     |
| to_date        | Date(YYYY-MM-DD) | TRUE (if from_date is set)          |
| offset         | Int              | TRUE                                |
| limit          | Int              | TRUE                                |

## Parameters description

- as\_on** : When this parameter exists in service request, the response only work according to the particular set date. It will only work for single date record. For date range(from\_date and to\_date) treat as disable.
- from\_date** :It will response all the record from requested date with offset & limit value. The As\_On parameter should not exist in the Request.
- to\_date** : This parameter will not work without from\_date.
- offset** : When this parameter is set. The response will come as per the value of offset. If the Offset value is set to 5, the Response will start from the 5<sup>th</sup> record till the limit record.
- limit** : limit is basically number of records.

## Output fields

| Field Name            | Length | Type    | Mandatory | Values                                  | Parent Element |
|-----------------------|--------|---------|-----------|-----------------------------------------|----------------|
| Body                  |        |         |           |                                         |                |
| Status                | 4      | String  | TRUE      | Suss                                    | body           |
| Sub                   | 13     | String  | TRUE      | Bill                                    | body           |
| Aud                   | 4      | String  | TRUE      | Entityname                              | body           |
| Iss                   | 3      | String  | TRUE      | GEM                                     | body           |
| Iat                   | 10     | Numeric | TRUE      |                                         | body           |
| orderId               | 20     | String  | TRUE      |                                         | body           |
| entity_code           | 5      | Numeric | TRUE      | Code specific to the Buyer Organization | body           |
| depot_code            | 5      | Numeric | TRUE      | Code specific to the Buyer Organization | body           |
| depot_name            | 100    | String  | TRUE      | Code specific to the Buyer Organization | body           |
| depot_type            | 10     | String  | TRUE      | Code specific to the Buyer Organization | body           |
| auc_description       | 100    | String  | TRUE      | Accounting unit                         | body           |
| auc_code              | 10     | Numeric | TRUE      | Accounting unit                         |                |
| auc_short_description | 20     | String  | TRUE      | Accounting unit                         | body           |
| auc_type              | 4      | String  | TRUE      | Accounting unit                         | body           |
| organization          | 20     | String  | TRUE      |                                         | body           |

| Field Name          | Length | Type    | Mandatory | Values          | Parent Element |
|---------------------|--------|---------|-----------|-----------------|----------------|
| buyerName           | 20     | String  | TRUE      |                 | body           |
| buyerAddress        | 255    | String  | TRUE      |                 | body           |
| vendorName          | 20     | String  | TRUE      |                 | body           |
| vendorAddress       | 255    | String  | TRUE      |                 | body           |
| vendorCode          | 20     | String  | TRUE      |                 | body           |
| vendorDistrict      | 20     | String  | TRUE      |                 | body           |
| vendorState         | 20     | String  | TRUE      |                 | body           |
| vendorPin           | 6      | Numeric | TRUE      |                 | body           |
| vendorBankAccountNo | 25     | Numeric | TRUE      |                 | body           |
| vendorBankIfsc      | 20     | String  | TRUE      |                 | body           |
| vendorPan           | 12     | String  | TRUE      |                 | body           |
| vendorGstn          | 30     | String  | TRUE      |                 | body           |
| supplyOrderNo       |        |         |           |                 |                |
| supplyOrderDate     | Date   | Date    | TRUE      |                 | body           |
| faAdminDesignation  | 100    | String  | TRUE      | Accounting Code | body           |
| ifaConcurrence      | 2      | Numeric | TRUE      | Accounting Code | body           |
| ifdNumber           | 100    | String  | TRUE      | OPTIONAL        | body           |
| ifdDate             | Date   | Date    | TRUE      | OPTIONAL        | body           |
| productCode         | 20     | String  | TRUE      |                 | body           |
| productName         | 100    | String  | TRUE      |                 | body           |
| productBrand        | 100    | String  | TRUE      |                 | body           |
| totalValue          | 15,2   | Float   |           |                 | body           |
| consignee_Fname     | 20     | String  | TRUE      |                 | body           |
| consignee_Lastname  | 20     | String  | TRUE      |                 | body           |
| consignee_state     | 20     | String  | TRUE      |                 | body           |
| consignee_district  | 20     | String  | TRUE      |                 | body           |

| Field Name           | Length | Type    | Mandatory | Values | Parent Element |
|----------------------|--------|---------|-----------|--------|----------------|
| consignee_pin        | 6      | Numeric | TRUE      |        | body           |
| consignee_address    | 255    | String  | TRUE      |        | body           |
| consignee_mobile     | 13     | Numeric | TRUE      |        | body           |
| Gstn                 | 20     | String  | TRUE      |        | body           |
| expectedDeliveryDate | Date   | Date    | TRUE      |        | body           |
| quantityOrdered      | 10     | Numeric | TRUE      |        | body           |
| unitPrice            | 15,2   | Float   | TRUE      |        | body           |
| quantityUnitType     | 10     | String  | TRUE      |        | body           |
| billAmount           | 15,2   | Float   | TRUE      |        | body           |
| billDate             | date   | date    | TRUE      |        |                |
| billNo               | 20     | String  | TRUE      |        | body           |
| suppliedQuantity     | 10     | Numeric | TRUE      |        | body           |
| frieghtCharge        | 10     | Numeric |           |        | Body           |
| • CGST               | 10     | c       |           |        | Body           |
| • SGST_UTGST_IGST    | 10     | Numeric |           |        | Body           |
| • Cess               | 10     | c       |           |        | Body           |
|                      | 10     | Numeric |           |        | Body           |
|                      |        | c       |           |        |                |
|                      |        | Numeric |           |        |                |
|                      |        | c       |           |        |                |
| invoiceDate          |        |         |           |        | body<br>body   |
| invoiceNo            | 20     | String  | TRUE      |        | body           |
| ldAmount             | 10     | Numeric | OPTIONAL  |        | body           |



| Field Name    | Length | Type    | Mandatory | Values                      | Parent Element |
|---------------|--------|---------|-----------|-----------------------------|----------------|
| ldDays        | 2      | Numeric | OPTIONAL  |                             | body           |
| invoiceFile   | TEXT   | TEXT    | TRUE      | BASE64 ENCODED/Relative URL | body           |
| faFile        | TEXT   | TEXT    | TRUE      | BASE64 ENCODED/Relative URL | body           |
| cracFile      | TEXT   | TEXT    | TRUE      | BASE64 ENCODED/Relative URL | body           |
| contractFile  | TEXT   | TEXT    | TRUE      | BASE64 ENCODED/Relative URL | body           |
| billFile      | TEXT   | TEXT    | TRUE      | Relative URL                | body           |
| cracDate      | Date   | Date    | TRUE      |                             | body           |
| cracNo        | 20     | String  | TRUE      |                             | body           |
| amountClaimed | 15,2   | Float   | TRUE      | Decimal                     | body           |
| receiptNo     | 20     | String  | TRUE      |                             | body           |
| receiptDate   | Date   | Date    | TRUE      |                             | body           |

## Json Structure Changes

As per new structure for bunch items we have used new hierarchy where we have placed the multiple product inside the consignee level. Below is the structure for bunch item. In bill service few fields extra when buyer proceed the bill.

```
{
  "status": "suss",
```

```
"data": {  
    "sub": "bills",  
    "aud": "Entityname",  
    "iss": "GeM",  
    "iat": 1523510308,  
    "data": [{  
  
"auCode": "",  
"auDesc": "",  
"auShortDesc": "",  
"auType": "",  
"billAmount": "",  
"billDate": "2",  
"billFile": "",  
"billNo": "",  
"buyerAddr": "",  
"buyerDistrict": "",  
"buyerEmail": "",  
"buyerGstn": "",  
"buyerMobile": "",  
"buyerName": "",  
"buyerOrg": "",  
"buyerPincode": "",  
"buyerState": "",  
"consignmentDetails": [  
  
{
```

```
"consignee_Fname": "",  
"consignee_Lastname": "",  
"consignee_state": "",  
"consignee_district": "",  
"consignee_pin": "",  
"consignee_address": "",  
"consignee_mobile": "",  
"products": [  
  {  
    "productCode": "",  
    "productName": "",  
    "productBrand": "",  
    "totalValue": "",  
    "expectedDeliveryDate": "",  
    "quantityOrdered": "",  
    "unitPrice": "",  
    "quantityUnitType": "",  
    "suppliedQuantity": "",  
    "acceptedQuantity": "",  
    "freightCharge": ""  
  },  
  {  
    "productCode": "",  
    "productName": "",  
    "productBrand": "",
```

```
"totalValue": "",  
"expectedDeliveryDate": "",  
"quantityOrdered": "",  
"unitPrice": "",  
"quantityUnitType": "",  
"suppliedQuantity": "",  
"acceptedQuantity": "",  
"freightCharge": ""  
}  
]  
}  
],  
"contractFile": "",  
"cracDate": "",  
"cracFile": "",  
"demandId": "",  
"depotCode": "",  
"depotName": "",  
"depotType": "",  
"designationFinancial": "",  
"dpShortName": "",  
"faFile": "",  
"gemInvoiceNo": "",  
"hodId": "",  
"ifdConcurrence": "",
```

"ifdDiaryDate": "",  
"ifdDiaryNo": "",  
"invoiceDate": "",  
"invoiceFile": "",  
"invoiceNo": "",  
"IdAmount": "",  
"IdDays": "",  
"orderAmount": "",  
"orderDate": "",  
"orderId": "",  
"paymentCreated": "",  
"payment\_Details": "",  
"paymentMode": "",  
"paymentStatus": "",  
"receiptDate": "",  
"receiptNo": "",  
"entityCode": "",  
"sellerId": "",  
"supplyOrderDate": "",  
"supplyOrderNo": "",  
"vendorAddress": "",  
"vendorBankAccountNo": "",  
"vendorBankIfscCode": "",  
"vendorCode": "",  
"vendorDistrict": "",

```
"vendorGstn": "",  
  
"vendorName": "",  
  
"vendorPan": "",  
  
"vendorPincode": "",  
  
"vendorState": ""  
  
}]  
  
}  
  
}
```

## 6. Action items for CPSU and other Government entities using ERP

As a next step / action item, the CPSU and other government entities using ERP, would be required to carry out the following tasks:

- Identify a techno functional team from their end to carryout out the integration with the above API exposed by GeM Platform. The details of the techno functional team should be communicated to CTO GeM SPV at rajesh[dot]narang[at]gem[dot]gov[dot]in
- Carryout the integration requirements at their end and consume the information provided by the GeM exposed API and return the payment related required details to GeM portal.
- As part of the UAT testing of the integration, both GeM and the CPSU would be required to be part of the testing. GeM would push test transactions to the CPSU system and the CPSU would be required to consume the data in their ERP.

\*\*\*\*\*END OF DOCUMENT\*\*\*\*\*