cropdata
Connecting Farmers

CROPDATA TECHNOLOGY PRIVATE LIMITED

Date: 6th May, 2020

DRK API

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Document Versions

Version	Updates	Date
1.0	Initial version	25th Sep, 2019
2.0	Introduced Master Data Endpoints	06th Nov, 2019
3.0	Added more resources in Master Data	11th Nov, 2019
4.0	Added more resources in Master Data	26th Nov, 2019
5.0	Added Response field of Resource	13th Dec, 2019
6.0	Introduced MBEP Calculator	20th Dec, 2019
7.0	Updated Media Files & MBEP API Added Bank Category resource and updated Bank resource.	08th Jan, 2020
8.0	Add Benchmark Spots Submit Ground Truth Data Submit PR Data Submit CCTC Data Submit Registration Data	05th Feb, 2020
9.0	Various	06th Apr, 2020
10.1	Registration Data Fields updated Updated NDVI endpoints	07th May, 2020

Master Data - Media Files

Overview

This endpoint will be used to get master data Images from Toolsuite.

Endpoint Guideline

GET Media Files (Resource)

Get master data (optionally updated records only) Required Parameters: apiKey Required Path Variable: media Optional Parameters: unixTimestamp
HTTP Method: GET
http://api.cropdatadev.tk/drk/v1.0/media/{resource}?apiKey=yourApiKey
http://api.cropdatadev.tk/drk/v1.0/media/{resource}?unixTimestamp=1572968387 &apiKey=yourApiKey

Request Parameter Definitions

Type	Name	Description
Path Variable	{resource}	Resource Name Ex. stress-symptoms,commodity-plant-part etc.. Note: for complete resources refer to the Resource table below.
Request Param	unixTimestamp	Timestamp parameter, this will return only those records that have been updated after the given timestamp.
Request Param	apiKey	The “apiKey” is used to access the api, usually consumer specific.

Resource Table

Resource Name	Path Variable	Description
Commodity Plan Part	commodity-plant-part	**Response:** ● Zip File of Images

Stress	stress	**Response:** ● Zip File of Images
Stress Symptoms	stress-symptoms	**Response:** ● Zip File of Images

GET Media Files (ALL)

Get master data (optionally updated records only) Required Parameters: apiKey Required Path Variable: media Optional Parameters: unixTimestamp
HTTP Method: GET
http://api.cropdatadev.tk/drk/v1.0/media/all?unixTimestamp=0&apiKey=yourApiKey

Example Request

http://api.cropdatadev.tk/drk/v1.0/media/**all?unixTimestamp=0&apiKey**=yourApiKey

Note: Put your API Key at the end.

Response Sample

Response Code : 200

- Response Contains a zip file.

Status Codes

As described in "Tile assignment - Get villages from sub-region" section.

Error Codes

As described in "Tile assignment - Get villages from sub-region" section.

Error Samples

```
{
   "success": false,
   "errorCode": "DRKERR-009",
   "error": "Data not available."
}
```

Master Data Endpoints

Overview

This endpoint will be used to get master data from Toolsuite. It has two variants depending on an optional parameter. The first one will be called to get the whole set of records (without optional parameter). The second one can be called with the optional Timestamp parameter, this will return only those records that have been updated after the given timestamp. In both cases it requires a path variable to determine the resource.

Endpoint Guideline

Get master data (optionally updated records only) Required Parameters: apiKey Required Path Variable: resource Optional Parameters: unixTimestamp
HTTP Method: GET
http://api.cropdatadev.tk/drk/v1.0/data/{resource}?apiKey=yourApiKey
http://api.cropdatadev.tk/drk/v1.0/data/{resource}?unixTimestamp=1572968387 &apiKey=yourApiKey

Request Parameter Definitions

Type	Name	Description
Path Variable	{resource}	Resource Name Ex. village,district etc.. Note: for complete resources refer Resource table below.
Request Param	unixTimestamp	Timestamp parameter, this will return only those records that have been updated after the given timestamp.
Request Param	apiKey	The “apiKey” is used to access the api, usually consumer specific.

Resource Table

Resource Name	Path Variable	Description
Activity	**activity**	**Response:** ● Name (varchar 100)

Agrochemical	agrochemical	**Response:** ● Name (varchar 145) **Dependents On:** commodity, agrochemical-type, stress(agrochemical-stress)
Agrochemical Brand	**agrochemical-brand**	**Response:** ● BrandName : varchar(100) **Dependents On:** company, agrochemical
Agrochemical-Stress	agrochemical-stress	**Dependents On:** agrochemical, stress
Agrochemical Type	agrochemical-type	**Response:** ● Name (varchar 255)
Bank	**bank**	**Response:** Name (varchar 100) **Dependents On:** bank-category
Bank Category	**bank-category**	**Response:** Name (varchar 200)
Bank Branches	bank-branch	**Dependents On:** bank
Calling-Status	calling-status	**Response:** ● CallingStatus : varchar(100)
Commodity	**commodity**	**Response:** Name : varchar(100), ScientificName : varchar(100)
Commodity-Class	commodity-class	**Response:** ● Name (varchar 100)
~~Commodity-Phenophase~~	~~commodity-phenophase~~	~~**Dependents On:**~~ ~~commodity,phenophase~~

Commodity Plant Part	commodity-plant-part	**Response:** ● ImageID : varchar(100),
Company	company	**Response:** ● Name : varchar(100),
Country	country	**Response:** ● Name (varchar 100)
District	**district**	**Response:** ● Name (varchar 100) **Dependent On:** `state`
Drop-Reason	**drop-reason**	**Response:** ● DropReason : varchar(100)
Ecosystem	ecosystem	**Response:** ● Name (varchar 255)
Education Type (we call it as farmer_education)	**education-type**	**Response:** ● Name (varchar 100)
Enrollment-place	**enrollment-place**	**Response:** ● Name (varchar 100)
Farm Ownership Type	farm-ownership-type	**Response:** ● Name (varchar 100)
Fertilizer	fertilizer	**Response:** ● Name (varchar 255)
Field-activity	field-activity	**Response:** ● Name : varchar(100), ● Description : varchar(512)
Fertilizer Application Method (we call it as agri_agrochemical_application_type)	**fertilizer-application-method**	**Response:** ● Name (varchar 255)
General-commodity	general-commodity	**Response:** ● Name (varchar 100)

Govt Official Dept	**govt-official-dept**	**Response:** ● DepartmentName : varchar(100)
Govt Official Designation	**govt-official-designation**	**Response:** ● Name (varchar 100)
Health	**health**	**Response:** ● Name (varchar 100) **Dependent On:** ● commodity, phenophase,HealthParameter
Health Parameter	**health-parameter**	**Response:** ● Name (varchar 100)
Hs-Code	hs-code	**Response:** ● HSCode : varchar(100), ● Description : varchar(255) **Dependent On:** commodity, general-commodity, commodity-class
Income-Source	income-source	**Response:** ● Name (varchar 200),
Insurance Type	insurance-type	**Response:** ● Name (varchar 100)
Insurance Company	**insurance-company**	**Response:** ● Name (varchar 100)
Irrigation Method	**irrigation-method**	**Response:** ● Name (varchar 100)
Irrigation Source (we call it as agri_source_of_water)	**irrigation-source**	**Response:** ● Name (varchar 100)
KYC Doc Type (we call it as farmer_id_proof)	**kyc-doc-type**	**Response:** ● Name (varchar 200)

Language	language	**Response:** ● Language : varchar(100) **Dependent On:**
Loan Purpose	**loan-purpose**	**Response:** ● Name (varchar 100)
Loan Source	**loan-source**	**Response:** ● Name (varchar 100)
Machinery	**machinery**	**Response:** ● Name (varchar 100)
Mobile Type	**mobile-type**	**Response:** ● MobileType : varchar(150)
Panchayat	panchayat	**Response:** ● Name (varchar 250) **Dependent On:** tehsil
Payment-Mode	**payment-mode**	**Response:** ● ModeOfPayment : varchar(100)
Plant-Part	**plant-part**	**Response:** ● Name (varchar 100)
Phenophase	phenophase	**Response:** ● Name (varchar 100)
Phenophase-Duration	phenophase-duration	**Response:** ● ImageID : varchar(250) **DependentOn:** state,season,variety,phenophase

Point of Interest Type	**poi-type**	**Response:** ● Name (varchar 100)
Proxy-Relation-Type	**proxy-relation-type**	**Response:** ● ProxyRelationType : varchar(150)
Region	region	**Response:** ● Name:varchar(100), Description : varchar(100) ● **Dependent On:** tile, state
Regional-Stress	regional-stress	**DependentOn:** state,region,stress
Regional-variety	regional-variety	**Dependent On:** state,region,season,commodity,variety
Residue Disposal Type (we call it as agri_disposal_method)	**residue-dispose-type**	**Response:** ● Name (varchar 100)
Recommendation	**recommendation**	**Dependent On:** StressControlMeasureID,StressID, StressSeverityID
Season	**season**	**Response:** ● Name (varchar 45)
Seed Source	**seed-source**	**Response:** ● Name (varchar 100)
Seed Treatment Agent	**seed-treatment-agent**	**Response:** ● Name (varchar 100) **Dependent On:** commodity, variety

Service-Type	**service-type**	**Response:** ● TypeOfService : varchar(100)
State	**state**	**Response:** ● Name (varchar 100) **DependentOn:** country
State Language Master (we call it as regional_language)	**state-language-master**	**DependentOn:** state,language
State-Season	state-season	**Dependent On:** state,season
State-Season-Commodity	state-season-commodity	**Dependent On:** state,region, season,commodity
Stress	**stress**	**Response:** ● Name : varchar(45), ● ScientificName :varchar(512), ● ImageID : varchar(250) **Dependent On:** commodity, phenophase
Stress-Severity	**stress-severity**	**Responce:** ● Name :(varchar 500) ● value : int(11)
Stress-stage	stress-stage	**Response:** ● Name (varchar 500) ● Description : varchar(512)

Stress-Symptoms	stress-symptoms	**Response:** ● Name : varchar(255) ● Start : varchar(45) ● End : varchar(45), ● Status : varchar(255) **Dependent On:** commodity,phenophase, plant-part,stress-type,stress, stress-stage
Stress Control Measures	**stress-control-measure**	**Response:** ● Name (varchar 100)
Stress Control Recommendations	**stress-control-recommendation**	**Response:** ● DosePerHectare (varchar 45) ● DosePerAcre (varchar 45) ● WaterPerHectare (varchar 45) ● WaterPerAcre (varchar 45)
Stress Type	**stress-type**	**Response:** ● Name (varchar 100)
Sub-Region	sub-region	**Dependent On:** region
Tehsil	**tehsil**	**Response:** ● Name (varchar 100) **Dependent On:** district
Unit Of Measurement (we call it as general_uom)	**unit-of-measurement**	**Response:** Name : varchar(45) Description : varchar(150)
Variety	variety	**Response:** ● Name (varchar 45) **Dependent On:** commodity
Variety-Resistant-Stress	variety-resistant-stress	**Dependent On:** variety-stress, stress
Variety-Susceptible-Stress	variety-susceptible-stress	**Dependent On:** variety-stress, stress
Variety-Tolerant-Stress	variety-tolerant-stress	**Dependent On:** variety-stress, stress

Village	**village**	**Response:** ● Name (varchar 200) **Dependent On:** panchayat
Vip-status	**vip-status**	**Response:** ● VipStatus : varchar(150)
Vip Designation	vip-designation	**Response:** ● Name (varchar 200)
Govt Official Designation	**govt-official-designation**	**Response:** ● Name (varchar 200) **Dependent On:** Department
Dose Factor	**dose-factor**	**Response:** ● DoseFactor (varchar 255)
Plant Health Index	**plant-health-index**	**Response:** ● Name (varchar 45)
Marital Status	**marital-status**	**Response:** ● Name (varchar 45)
Variety Quality	**variety-quality**	**Dependent On:** variety

Resource Response Fields

Activity

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of the activity.
Status	ENUM	Current status of record

Agrochemical

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
AgrochemicalTypeID	int(11)	Agrochemical Type
CommodityID	int(11)	Commodity Id
StressTypeID	int(11)	Stress Type Id
Name	varchar(150)	Name of the Agrochemical.
WaitingPeriod	int(11)	Waiting period
Status	ENUM	Current status of record

Agrochemical Brand

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Brand Name	varchar(100)	Name of the brand
CompanyID	int(11)	Company Id
AgrochemicalID	int(11)	Agrochemical Id
AgrochemicalStatus	ENUM('Active', 'Banned')	Status of Agrochemical
Status	ENUM	Current status of record

Agrochemical Stress

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
AgrochemicalID	int(11)	Agrochemical Id
StressID	int(11)	Stress

Agrochemical Type

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of Agrochemical type
Status	ENUM	Current status of record

Bank

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of the Bank
BankCategoryID	int(11)	ID of **bank-category** resource.
StateCode	int(11)	StaeCode of **state** resource.
Status	ENUM	Current status of record

Bank Category

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of the Bank Category
Status	ENUM	Current status of record

Bank Branch

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
BankID	int(11)	Bank ID
BranchName	varchar(100	Name of the branch of Bank
IFSCCode	varchar(100	IFSCCode of the branch of Bank
Status	ENUM	Current status of record

Calling Status

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
CallingStatus	varchar(100)	Calling Status
Status	ENUM	Current status of record

Commodity

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of the commodity

ScientificName	varchar(100)	Scientific Name of the commodity
Status	ENUM	Current status of record

Commodity Class

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of Commodity Class
Status	ENUM	Current status of record

Commodity Plant Part

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
CommodityID	int(11)	Commodity Id
PhenophaseID	int(11)	Phenophase ID
ImageID	varchar(45)	Image ID
PlantPartID	int(11)	Plant Part ID
Status	ENUM	Current status of record

Company

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of Company
Status	ENUM	Current status of record

Country

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
CountryCode	int(11)	Country Code
Name	varchar(100)	Name of Country
Status	ENUM	Current status of record

District

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
StateCode	int(11)	State Code
DistrictCode	int(11)	District Code
Name	varchar(100)	Name of Country
Status	ENUM	Current status of record

Drop Reason

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Drop Reason	varchar(100)	DropReason
Status	ENUM	Current status of record

Ecosystem

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of Ecosystem
Status	ENUM	Current status of record

Education Type

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of Education Type
Status	ENUM	Current status of record

Enrollment Place

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of Enrollment Place
Status	ENUM	Current status of record

Farm Ownership Type

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of Farm Ownership Type
Status	ENUM	Current status of record

Fertilizer

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
StateCode	int(11)	State Code
RegionID	int(11)	Region ID
SeasonID	int(11)	Season ID
DoseFactorID	int(11)	DoseFactor ID
CommodityID	int(11)	Commodity ID
Type	ENUM('Nitrogen', 'Phosphorus', 'Potassium', 'FYM/Compost', 'Vermicompost')	Fertilizer Type
UomID	int(11)	Uom ID
Dose	DECIMAL(6,2)	Dose
Note	varchar(100)	Note
Status	ENUM	Current status of record

Field Activity

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
CommodityID	int(11)	Commodity ID
SeasonID	int(11)	Season ID
PhenophaseID	int(11)	Phenophase ID

Name	varchar(100)	Name of Activity
Description	varchar(500)	Description of Activity
Status	ENUM	Current status of record

Fertilizer Application Method

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of Fertilizer Application Method
Status	ENUM	Current status of record

General Commodity

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of General Commodity
Status	ENUM	Current status of record

Govt Official Department

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
DepartmentName	varchar(100)	Name of Department
Status	ENUM	Current status of record

Govt Official Designation

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of Designation
Status	ENUM	Current status of record

Health

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource

CommodityID	int(11)	Commodity ID
PhenophaseID	int(11)	Phenophase ID
~~HealthParameterID~~	int(11)	Health Parameter ID
HealthParameter	varchar(100)	Name of Health Parameter
Specification	varchar(100)	Specification Of Health
Status	ENUM	Current status of record

Health Parameter

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of Health Parameter
Status	ENUM	Current status of record

Hs Code

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
CommodityID	int(11)	Commodity ID
GeneralCommodityID	int(11)	General Commodity ID
CommodityClassID	int(11)	Commodity Class ID
HSCode	varchar(100)	Hs code
Description	varchar(255)	Description
Status	ENUM	Current status of record

Income Source

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of Farmer income source
Status	ENUM	Current status of record

Insurance Type

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of Insurance type
Status	ENUM	Current status of record

Insurance Company

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
InsuranceTypeID	int(11)	Insurance Type ID
Name	varchar(100)	Name of Insurance Company
Status	ENUM	Current status of record

Irrigation Method

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of Irrigation Method
Status	ENUM	Current status of record

Irrigation Source

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of Irrigation Source(agri_source_of_water)
Status	ENUM	Current status of record

KYC Doc Type

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of Farmer id proof
Status	ENUM	Current status of record

Language

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of Farmer Language
Status	ENUM	Current status of record

Loan Purpose

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of Loan Purpose
Status	ENUM	Current status of record

Loan source

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of Loan source
Status	ENUM	Current status of record

Machinery

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of machinery
Status	ENUM	Current status of record

Mobile Type

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of Mobile Type
Status	ENUM	Current status of record

Panchayat

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
TehsilCode	int(11)	Tehsil Code
PanchayatCode	int(11)	Panchayat Code
Name	varchar(100)	Name of Panchayat
Status	ENUM	Current status of record

Payment-Mode

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
ModeOfPayment	varchar(100)	Name of Payment-Mode
Status	ENUM	Current status of record

Plant Part

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of Plant Part
Status	ENUM	Current status of record

Phenophase

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of Phenophase
Status	ENUM	Current status of record

Phenophase Duration

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
StateID	int(11)	Commodity ID

SeasonID	int(11)	Season ID
CommodityID	int(11)	Commodity ID
VarietyID	int(11)	Variety ID
PhenophaseID	int(11)	Phenophase ID
PhenophaseStart	int(11)	Phenophase Start day
PhenophaseEnd	int(11)	Phenophase End day
Status	ENUM	Current status of record

Point of Interest Type

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of point of Interest Type
Status	ENUM	Current status of record

Proxy Relation Type

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of Proxy Relation Type
Status	ENUM	Current status of record

Region

Field Name	Type	Description
RegionID	int(11)	Unique identifier of each record of resource
~~TileID~~	~~int(11)~~	~~Tile ID~~
StateCode	int(11)	State Code
Latitude	DECIMAL(19,8)	Latitude of centroid
Longitude	DECIMAL(19,8)	Latitude of centroid
Name	varchar(100)	Name of Panchayat
Description	varchar(100)	Description of Region

Status	ENUM	Current status of record

Regional Stress

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
StateCode	int(11)	State Code
RegionID	int(11)	Region ID
StressID	int(11)	Stress ID
Status	ENUM	Current status of record

Regional Variety

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
StateCode	int(11)	State Code
RegionID	int(11)	Region ID
SeasonID	int(11)	Stress ID
CommodityID	int(11)	Commodity ID
VarietyID	int(11)	Variety ID
SowingWeekStart	int(11)	Sowing Start Week
SowingWeekEnd	int(11)	Sowing End Week
HarvestWeekStart	int(11)	Harvest Start Week
HarvestWeekEnd	int(11)	Harvest End Week
Status	ENUM	Current status of record

Residue Dispose Type

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of Residue Dispose Type
Status	ENUM	Current status of record

Recommendation

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
StressControlMeasureID	int(11)	Stress Control Measure ID
StressID	int(11)	Stress ID
StressSeverityID	int(11)	Stres Severity ID
Status	ENUM	Current status of record

Season

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of Season
Status	ENUM	Current status of record

Seed Source

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of Seed Source
Status	ENUM	Current status of record

Seed Treatment Agent

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
VarietyID	int(11)	Variety ID
Name	varchar(100)	Name of Seed Treatment Agent
Dose	int(11)	Dose
UomID	int(11)	Unit Measurement ID
Status	ENUM	Current status of record

Service Type

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of Service Type
Status	ENUM	Current status of record

State

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
StateCode	int(11)	State Code
CountryCode	int(11)	Country Code
Name	varchar(100)	Name of State
Status	ENUM	Current status of record

State Language Master

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
StateCode	int(11)	State Code
LanguageID	int(11)	Language ID
Status	ENUM	Current status of record

State Season

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
StateCode	int(11)	State Code
SeasonID	int(11)	Season ID
StartWeek	int(11)	Start Week
EndWeek	int(11)	End Week
Status	ENUM	Current status of record

State Season Commodity

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
StateCode	int(11)	State Code
RegionID	int(11)	Region ID
SeasonID	int(11)	Season ID
CommodityID	int(11)	Commodity ID
Status	ENUM	Current status of record

Stress

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
CommodityID	int(11)	Commodity ID
StressTypeID	int(11)	Stress Type ID
StartPhenophaseID	int(11)	Start Phenophase ID
EndPhenophaseID	int(11)	EndPhenophaseID
Name	varchar(45)	Name Of Stress
ScientificName	varchar(512)	Scientific Name
ImageID	varchar(45)	Image ID
Status	ENUM	Current status of record

Stress Severity

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name Stress Severity
Value	int(11)	Value
Status	ENUM	Current status of record

Stress Stage

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
CommodityID	int(11)	Stress Control Measure ID
StartPhenophaseID	int(11)	Start Phenophase ID
EndPhenophaseID	int(11)	End Phenophase ID
StressTypeID	int(11)	Stress Type ID
StressID	int(11)	Stress ID
Name	varchar(500)	Name Of Stress Stage
Description	varchar(500)	Description of Stress Stage
Status	ENUM	Current status of record

Stress Symptoms

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
CommodityID	int(11)	Stress Control Measure ID
PhenophaseID	int(11)	Phenophase ID
PlantPartID	int(11)	Plant Part ID
StressTypeID	int(11)	Stress Type ID
StressID	int(11)	Stress ID
StressStageID	int(11)	Stress Stage ID
Symptom	varchar(1000)	Name Of Stress Stage
ImageID	varchar(45)	Image ID
Status	ENUM	Current status of record

Stress Control Measures

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of Stress Control Measures
Status	ENUM	Current status of record

Stress Control Recommendations

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
CommodityID	int(11)	Commodity ID
StressControlMeasureID	int(11)	Stress ID
StressID	int(11)	End Phenophase ID
Instructions	TEXT	Stress Type ID
AgrochemicalID	int(11)	Stress ID
DosePerAcre	varchar(45)	Dose Per Acre
PerAcreUomID	int(11)	Per Acre Uom ID
WaterPerAcre	varchar(45)	Wate rPer Acre
PerAcreWaterUomID	int(11)	Per Acre Water UomID
AgrochemApplicationID	int(11)	Agrochem Application ID
Status	ENUM	Current status of record

Stress Type

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of Stress Type
Status	ENUM	Current status of record

Sub-Region

Field Name	Type	Description

SubRegionID	int(11)	Unique identifier of each record of resource
RegionID	varchar(100)	Region ID
Latitude	DECIMAL(19,8)	Latitude of centroid
Longitude	DECIMAL(19,8)	Longitude of centroid
Status	ENUM	Current status of record

Tehsil

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
DistrictCode	int(11)	District Code
TehsilCode	int(11)	TehsilCode
Name	varchar(100)	Name of Tehsil
Status	ENUM	Current status of record

Unit Of Measurement

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of Stress Type
Description	varchar(100)	Description
Status	ENUM	Current status of record

Variety

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
CommodityID	int(11)	Commodity ID
Name	varchar(100)	Name of Stress Type
HsCode	varchar(100)	HsCode
DomesticRestrictions	ENUM(Yes,No)	Domestic Restrictions
InternationalRestrictions	ENUM(Yes,No)	International Restrictions

Status	ENUM	Current status of record

Variety Resistant Stress

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
VarietyStressID	int(11)	Variety Stress ID
StressID	int(11)	Stress ID

Variety Susceptible Stress

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
VarietyStressID	int(11)	Variety Stress ID
StressID	int(11)	Stress ID

Variety Tolerant Stress

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
VarietyStressID	int(11)	Variety Stress ID
StressID	int(11)	Stress ID

Village

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
PanchayatCode	int(11)	District Code
VillageCode	int(11)	TehsilCode
RegionID	int(11)	Region ID
SubRegionID	int(11)	Sub Region ID
Name	varchar(100)	Name of Tehsil
PIN	int(11)	Pin number
Latitude	DECIMAL(19,8)	Latitude of centroid

Longitude	DECIMAL(19,8)	Longitude of centroid
Status	ENUM	Current status of record

VIP Status

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
VipStatus	varchar(100)	Name of Vip Status
Status	ENUM	Current status of record

VIP Designation

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of Vip Designation
Status	ENUM	Current status of record

Govt Official Designation

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(100)	Name of Official Designation
DepartmentID	int(11)	Department Id
Status	ENUM	Current status of record

Dose Factor

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
DoseFactor	varchar(255)	Name of Dose Factor
Status	ENUM	Current status of record

Plant Health Index

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(45)	Name of Plant Health Index

Status	ENUM	Current status of record

Marital Status

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
Name	varchar(45)	Name of Marital Status
Status	ENUM	Current status of record

Variety Quality

Field Name	Type	Description
ID	int(11)	Unique identifier of each record of resource
CommodityID	int(11)	Commodity ID
VarietyID	int(11)	Variety ID
CurrentQuality	ENUM('Grade-I', 'Grade-II', 'Grade-III')	Current Quality
EstimatedQuality	ENUM('Grade-I', 'Grade-II', 'Grade-III')	Estimated Quality
AllowableVarianceInQualityBand	VARCHAR(45)	Allowable VarianceIn QualityBand
Status	ENUM	Current status of record

Note : Status of All records will be Active And Deleted

Example Request

http://api.cropdatadev.tk/drk/v1.0/data/**commodity**?**apiKey**=yourApiKey
Note: Put your API Key at the end and **change resource variable value for different resources**.

Response Sample

Response Code : 200

- Response Contains a List with the requested resource data.

```
[
        {
          "ID": 1,
          "Name": "Rice",
          "ScientificName": "Oryza Sativa L"
        },
        {
          "ID": 2,
          "Name": "Wheat",
          "ScientificName": "Triticum Aestivum L"
        },
        {
          "ID": 3,
          "Name": "Jowar",
          "ScientificName": "Sorghum Bicolor"
        }, ...
]
```


Status Codes

As described in "Tile assignment - Get villages from sub-region" section.

Error Codes

Code	Description
`DRKERR-008`	Invalid resource name.

Error Samples


```
{
        "error": "Invalid resource name",
        "errorCode": "DRKERR-008"
}
```

Data dependency from DRK to Tool Suite

1. **Submit PR data overview** - DRK needs to send PR data overview to Toolsuite for analysis. This analysis is preparing guidance data for PRM given through the “Tile assignment” APIs
2. **Submit CCTC data overview**
    a. **Add Village Wise Call Response** - Send next day’s schedule of CCTC to Toolsuite. These data are required for analysis purposes and to prepare various KPIs. These data also have requirements in GSTM based dashboards.
    b. **Add Commodity wise Village Schedules Info** - Send region, sub-region, commodity wise village schedule to Toolsuite. These data are required for analysis purposes and to prepare various KPIs. These data also have requirements in GSTM based dashboards.
3. **Submit Registration Data**
    a. **Farmer Details** - Everyday DRK will push newly registered farmer’s details into Toolsuite. DRK will also push any updates done on farmer details. Toolsuite uses these data to prepare necessary ratings. This endpoint will be used to add or update details.
    b. **Farm Details** - Everyday DRK will push newly registered farm details into Toolsuite. DRK will also push any updates done on farm details. Toolsuite uses these data to prepare necessary ratings. This endpoint will be used to add or update details.
    c. **Case Details** - Everyday DRK will push newly registered case details into Toolsuite. Toolsuite uses these data to enable GSTM workflow. This endpoint will be used to add or update details.
4. **Add Benchmark Image** - At the time of monitoring by FLS / MLT captured images of stress are marked as “Benchmark Image”. DRK needs these images to send to Toolsuite along with the metadata.
5. **Submit Ground Truth**
    a. **Spot** - Field monitoring data by FLScout
    b. **Farms/Village** - Sample monitoring by MLTech
6. **Add Benchmark Spots** - At the time of monitoring, FLS will mark a spot as “Benchmark”. All the benchmark spots collected in a day need to be pushed into Toolsuite. GSTM prepares NDVI reports depending on these spots.

Submit PR data overview

Endpoint Guideline

Accept Village data: Required Parameters: apiKey
HTTP Method : POST
http://api.cropdatadev.tk/drk/v1.0/add-village-info?apiKey=**yourApiKey**

Request Parameter Definitions

Type	Name	Description
Request Param	apiKey	The “apiKey” is used to access the api, usually consumer specific.

Request Body Definitions

Type	Description

Request Body	[
	{
	"subRegionId":191067,
	"villageCode":30818,
	"totalFarmHolding":4,
	"averageYeild":4.5,
	"totalSownArea":2.5,
	"totalIrrigatedArea":2,
	"totalFarmers":50,
	"prVillageCropSeasonSowingHarvestList":[
	{
	"villageCode":30818,
	"seasonId":1,
	"commodityId":2,
	"sownArea":10.7,
	"sowingWeek":3,
	"harvestingWeek":7
	},
	{
	"villageCode":30818,
	"seasonId":2,
	"commodityId":2,
	"sownArea":10.7,
	"sowingWeek":5,
	"harvestingWeek":8
	}
	]
	},
	{

```
        "subRegionId":191052,
        "villageCode":30888,
        "totalFarmHolding":4,
        "averageYeild":4.5,
        "totalSownArea":2.5,
        "totalIrrigatedArea":2,
        "totalFarmers":50,
        "prVillageCropSeasonSowingHarvestList":[
            {
                "villageCode":30888,
                "seasonId":1,
                "commodityId":2,
                "sownArea":10.7,
                "sowingWeek":3,
                "harvestingWeek":7
            },
            {
                "villageCode":30888,
                "seasonId":2,
                "commodityId":2,
                "sownArea":10.7,
                "sowingWeek":5,
                "harvestingWeek":8
            }
        ]
    },
    ....
]
```


Response JSON Sample

Response Code : 200

- Response Contains a JSON object with **success** and **message** parameters.


```
{
   "message": "village information data has been processed.",
   "success": true
}
```


Status Codes

As described in "Tile assignment - Get villages from sub-region" section.

Error Codes

As described in "Tile assignment - Get villages from sub-region" section.

Error Samples

As described in "Tile assignment - Get villages from sub-region" section.

Submit CCTC data overview

Add Village Wise Call Response

Required Parameters: apiKey
HTTP Method : POST
http://api.cropdatadev.tk/drk/v1.0/add-cctc-village-schedules-info?apiKey=**yourApiKey**

Request Parameter Definitions

Type	Name	Description
Request Param	apiKey	The “apiKey” is used to access the api, usually consumer specific.

Request Body Definitions

Type	Description

Request Body	<pre>[
	  {
	  "villageCode":30818,
	  "totalCalls":30,
	  "rejectedCalls":4,
	  "willingToJoinAgriota":8,
	  "date":"2019-10-10:15:15:20:0"
	  },
	  ...
	]</pre>

Response JSON Sample

Response Code : 200

- Response Contains a JSON object with **success** and **message** parameters.

<pre>{
  "message": "Village CCTC Schedules Info data has been processed.",
  "success": true
}</pre>

Status Codes

As described in "Tile assignment - Get villages from sub-region" section.

Error Codes

As described in "Tile assignment - Get villages from sub-region" section.

Error Samples

As described in "Tile assignment - Get villages from sub-region" section.

Add Commodity wise Village Schedules Info

Required Parameters: apiKey
HTTP Method : POST
http://api.cropdatadev.tk/drk/v1.0/add-commodity-village-schedules-info?apiKey=**yourApiKey**

Request Parameter Definitions

Type	Name	Description
Request Param	apiKey	The “apiKey” is used to access the api, usually consumer specific.

Request Body Definitions

Type	Description

Request Body	<pre>[
	  {
	  "villageCode":30818,
	  "commodityId":4,
	  "totalSchedules":8,
	  "date":"2019-10-10:15:15:20:0"
	  },
	  ...
	]</pre>

Response JSON Sample

Response Code : 200

- Response Contains a JSON object with **success** and **message** parameters.

<pre>{
  "message": "Commodity Village Schedules Info data has been processed.",
  "success": true
}</pre>

Status Codes

As described in "Tile assignment - Get villages from sub-region" section.

Error Codes

As described in "Tile assignment - Get villages from sub-region" section.

Error Samples

As described in "Tile assignment - Get villages from sub-region" section.

Submit Registration Data

Farmer Details

Required Parameters: apiKey
HTTP Method : POST
http://api.cropdatadev.tk/drk/v1.0/farmer-details/farmer?apiKey=**yourApiKey**

Request Parameter Definitions

Type	Name	Description
Request Param	apiKey	The “apiKey” is used to access the api, usually consumer specific.

Request Body Definitions

Type	Description
Request Body	[{ "farmerId":545464, "villageCode":25, "farmerName":"Farmer", "farmerFatherHusbandName":"Father Farmer", "age":25, "primaryMobileNumber":9876543210, "alternateMobileNumber":9876543210, "maritalStatusId":1, "mobileTypeId":12, "hasGovtIdProof":"Yes", "govtIdProofId":[1,3,5], "educationId":2, "farmerLanguageId":3, "isVip":"Yes", "dependentsCount":5, "hasOwnLand":"Yes", "totalOwnLand":12.025, "hasLeasedLand":"No", "hasIrrigatedLand":"Yes", "farmSize":1.5, "cropArea":1.5, "majorCrop":"Wheat", "hasPolyhouse":"Yes",

```
    "hasCattles":"Yes",
    "hasPonds":"No",
    "hasSheds":"Yes",
    "farmMachinaryId":1,
    "activityId":2,
    "annualIncome":45000.0,
    "dueAmount":5034.08,
    "bankId":55,
    "bankBranchId":55,
    "accountName":"Account Name",
    "ifsc":"322390SBI57",
    "hasKisanCreditCard":"No",
    "hasLifeInsurance":"No",
    "hasHealthInsurance":"Yes",
    "hasCropInsurance":"Yes",
    "isPennydropped":"No",
    "pennydropStatus":null,
    "pennydropDate":null,
    "hasOutstandingLoan":"Yes",
    "loanPurposeId":3,
    "sourceOfLoanId":5,
    "outstandingLoanAmount":50000,
    "willingnessForCdt":true,
    "isDrkCust":true,
    "isAgriotaCust":false,
    "createdBy":34,
    "createdDate":"02-05-2020 14:20",
    "modifiedBy":34,
    "modifiedDate":null,
    "isVerified":"Yes"
}
,
   ...
]
```


Fields Details

Field Name	Type	Description
FarmerID	BigInt	Unique identifier of each record of resource
VillageCode	int(11)	Village Code
FarmerName	varchar(150)	Farmer Name
FarmerFatherHusbandName	varchar(150)	Farmer Father Husband Name

PrimaryMobileNumber	Long	Primary Mobile Number
AlternateMobileNumber	Long	Alternate Mobile Number
Age	int(11)	Age
MaritalStatusID	int(11)	Marital Status ID
MobileTypeID	int(11)	Mobile Type ID
HasGovtIDProof	ENUM(“Yes”,”No”)	Has GovtID Proof
GovtIdProofID	Integer Array	GovtId Proof ID
EducationID	int(11)	Education ID
FarmerLanguageID	int(11)	Farmer Language ID
IsVip	ENUM(“Yes”,”No”)	Is VIP
DependentsCount	int(11)	Number of Dependents
HasOwnLand	ENUM(“Yes”,”No”)	Has Own Land
TotalOwnland	DECIMAL(6,2)	Total Own Land
HasLeasedLand	ENUM(“Yes”,”No”)	Has Leased Land
HasIrrigatedLand	ENUM(“Yes”,”No”)	Has Irrigated Land
FarmSize	DECIMAL(6,2)	Farm Size
MajorCrop	varchar(150)	Major Crops
CropArea	DECIMAL(6,2)	Crop Area
HasPolyhouse	ENUM(“Yes”,”No”)	Has Polyhouse
HasCattles	ENUM(“Yes”,”No”)	Has Cattles
HasPonds	ENUM(“Yes”,”No”)	HasPonds
HasSheds	ENUM(“Yes”,”No”)	HasSheds
FarmMachineryID	int(11)	Farm Machinery ID
ActivityID	int(11)	Activity ID
AnnualIncome	DECIMAL(6,2)	Annual Income
DueAmount	DECIMAL(6,2)	Due Amount
BankID	Int(11)	Bank ID

BankBranchID	int(11)	Bank Branch ID
AccountName	varchar(150)	Account Name
IFSC	varchar(150)	IFSC
HasKisanCreditCard	ENUM(“Yes”,”No”)	Has Kisan Credit Card
HasLifeInsurance	ENUM(“Yes”,”No”)	Has Life Insurance
HasCropInsurance	ENUM(“Yes”,”No”)	Has Crop Insurance
HasHealthInsurance	ENUM(“Yes”,”No”)	Has Health Insurance
IsPennydropped	ENUM(“Yes”,”No”)	Is Pennydropped
PennydropStatus	varchar(45)	Pennydrop Status
PennydropDate	DateTime	Penny Drop Date ("dd-MM-yyyy HH:mm:ss")
HasOutstandingLoan	ENUM(“Yes”,”No”)	Has Outstanding Loan
LoanPurposeID	int(11)	Loan Purpose ID
SourceOfLoanID	int(11)	Source Of Loan ID
OutstandingLoanAmount	DECIMAL(6,2)	Outstanding Loan Amount
WillingnessForCdt	Boolean	Willingness For Cdt
IsDrkCust	Boolean	Is Drk Cust
IsAgriotaCust	Boolean	Is Agriota Cust
CreatedBy	int(11)	Created By
CreatedDate	DateTime	Created Date ("dd-MM-yyyy HH:mm:ss")
ModifiedBy	int(11)	Modified By
ModifiedDate	DateTime	Modified Date ("dd-MM-yyyy HH:mm:ss")
IsVerified	ENUM(“Yes”,”No”)	Is Verified

Response JSON Sample

Response Code : 200

- Response Contains a JSON object with **success** and **message** parameters.

```
{
   "success":true,
   "message":"1 farmer data has been processed."
}
```


Status Codes

As described in "Tile assignment - Get villages from sub-region" section.

Error Codes

As described in "Tile assignment - Get villages from sub-region" section.

Error Samples

As described in "Tile assignment - Get villages from sub-region" section.

Farm Details

Required Parameters: apiKey
HTTP Method : POST
http://api.cropdatadev.tk/drk/v1.0/farm-details/farm?apiKey=**yourApiKey**

Request Parameter Definitions

Type	Name	Description
Request Param	apiKey	The “apiKey” is used to access the api, usually consumer specific.

Request Body Definitions

Type	Description
Request Body	`[ { "farmId":84400, "farmerId":89900, "villageCode":780101, "farmName":"Sample Farm Name", "hasOwnLand":"Yes", "hasLandOwnershipDocumentPhoto":"Yes", "ownLand":2.5, "landOwnershipId":2, "isIrrigatedLand":"Yes", "hasLeasedLand":"No", "leasedOutLand":0,`

	<pre>"leasedInLand":0,
	"farmSize": 2.5,
	"croppingArea": 1.5
	}
	,
	...
	]</pre>

Fields Details

Field Name	Type	Description
FarmID	BigInt	Unique identifier of each record of resource
FarmerID	BigInt	Farmer ID
VillageCode	int(11)	Village Code
FarmName	varchar(45)	Farm Name
HasOwnLand	ENUM(“Yes”,”No”)	Has OwnLand
HasLandOwnershipDocumentPhoto	ENUM(“Yes”,”No”)	Has Land Ownership Document Photo
OwnLand	DECIMAL(6,2)	Own Land
LandOwnershipID	int(11)	LandOwnership ID
IsIrrigatedLand	ENUM(“Yes”,”No”)	Is Irrigated Land
HasLeasedLand	ENUM(“Yes”,”No”)	Has Leased Land
LeasedOutLand	DECIMAL(6,2)	Leased Out Land
FarmSize	DECIMAL(6,2)	Farm Size
CroppingArea	DECIMAL(6,2)	Cropping Area

Response JSON Sample

Response Code : 200

- Response Contains a JSON object with **success** and **message** parameters.

```
{
   "success":true,
   "message":"1 farm data has been processed."
}
```


Status Codes

As described in "Tile assignment - Get villages from sub-region" section.

Error Codes

As described in "Tile assignment - Get villages from sub-region" section.

Error Samples

As described in "Tile assignment - Get villages from sub-region" section.

Case Details

Required Parameters: apiKey
HTTP Method : POST
http://api.cropdatadev.tk/drk/v1.0/case-details/case?apiKey=**yourApiKey**

Request Parameter Definitions

Type	Name	Description
Request Param	apiKey	The “apiKey” is used to access the api, usually consumer specific.

Request Body Definitions

Type	Parameter	Description
Form Data	**data**	`[ { "caseId":1000024, "farmId":35400006659, "farmerId":1000019, "commodityId":2, "seedSourceId":4, "seedRate":12.5, "seedSampleReceived":"Yes", "currentPhenophaseId":5, "sowingWeek":4, "correctedSowingDate":null, "harvestWeek":10, "landAreaMisMatchPercent":3, "estimatedQuantity": 12,`

		<pre>"currentQuantity": 0,
		"paymentStatus":"Cash",
		"dueAmount":1000,
		"croppingArea":2.5,
		"spacingRow":1.5,
		"spacingPlant":2.5,
		"irrigationSourceId":4,
		"irrigationMethodId":6,
		"numberOfIrrigations":2,
		"weekOfIrrigation":3,
		"agrochemicalApplicationTypeId":2,
		"fertilizerId":3,
		"fertilizerDose":2,
		"fertilizerSplitDose":null,
		"fertilizerUomId":3,
		"fertilizerWeekOfApplication":2,
		"fertilizerYearOfApplication":2020,
		"seedTreatmentId":4,
		"seedTreatmentDose":1,
		"seedTreatmentUomId":2,
		"agrochemicalId":4,
		"agrochemicalBrandId":2,
		"agrochemicalDose":3,
		"agrochemicalUomId":2,
		"agrochemicalWeekOfApplication":3,
		"agrochemicalYearOfApplication":2020,
		"deathReason":null
		}
		,
		...
		]</pre>

Form Data	**zipFile**	Zip file including all kml files.

Fields Details

Field Name	Type	Description
CaseID	BigInt	Unique identifier of each record of resource
FarmID	BigInt	Farm ID
FarmerID	BigInt	Farmer ID
CommodityID	int(11)	Commodity ID
SeedSourceID	int(11)	Seed Source ID

MobileTypeID	int(11)	Mobile Type ID
SeedRate	DECIMAL(6,2)	Seed Rate
SeedSampleReceived	ENUM(“Yes”,”No”)	Seed Sample Received
CurrentPhenophaseID	int(11)	Current Phenophase ID
SowingWeek	int(11)	Sowing Week
CorrectedSowingDate	DateTime	Corrected Sowing Date("dd-MM-yyyy HH:mm:ss")
HarvestWeek	int(11)	Harvest Week
LandAreaMisMatchPercent	varchar(45)	Land Area Mismatch Percent
EstimatedQuantity	DECIMAL(11,2)	Estimated Quantity
CurrentQuantity	DECIMAL(11,2)	Current Quantity
PaymentStatus	ENUM('Cash','Wallet','Due')	Payment Status
DueAmount	DECIMAL(6,2)	Due Amount
CroppingArea	varchar(255)	Cropping Area
SpacingRow	DECIMAL(6,2)	Spacing Row
SpacingPlant	DECIMAL(6,2)	Spacing Plant
IrrigationSourceID	int(11)	Irrigation Source ID
IrrigationMethodID	int(11)	Irrigation Method ID
NumberOfIrrigations	int(11)	Number Of Irrigations
WeekOfIrrigation	int(11)	WeekOfIrrigation
AgrochemicalApplicationTypeID	int(11)	Agrochemical Application Type ID
FertilizerID	int(11)	Fertilizer ID
FertilizerDose	DECIMAL(6,2)	Fertilizer Dose
FertilizerSplitDose	varchar(50)	Fertilizer Split Dose
FertilizerUomID	int(11)	Fertilizer Uom ID
FertilizerWeekOfApplication	int(11)	Fertilizer Week Of Application
FertilizerYearOfApplication	int(11)	Fertilizer Year Of Application

SeedTreatmentID	int(11)	Seed Treatment ID
SeedTreatmentDose	DECIMAL(6,2)	Seed Treatment Dose
SeedTreatmentUomID	int(11)	Seed Treatment Uom ID
AgrochemicalID	int(11)	Agrochemical ID
AgrochemicalBrandID	int(11)	Agrochemical Brand ID
AgrochemicalDose	DECIMAL(6,2)	Agrochemical Dose
AgrochemicalUomID	int(11)	Agrochemical Uom ID
AgrochemicalWeekOfApplication	int(11)	Agrochemical Week Of Application
agrochemicalYearOfApplication	int(11)	Agrochemical Year Of Application
DeathReason	varchar(255)	Death Reason

Response JSON Sample

Response Code : 200

- Response Contains a JSON object with **success** and **message** parameters.

```
{
   "success":"true",
   "message":"All KML files and its data have been processed"
}


{
   "success":"false",
   "message":"KML files and Data mismatch",
   "detailedMessage":{
      "failed cases":[
         1,
         5,
         9
      ],
      "reason":"KML file name and the given file name in data is different"
   }
}
```

Status Codes

As described in "Tile assignment - Get villages from sub-region" section.

Error Codes

As described in "Tile assignment - Get villages from sub-region" section.

Error Samples

As described in "Tile assignment - Get villages from sub-region" section.

Add Benchmark Image

Overview

After approval of the benchmark images by CLSO, the image will be pushed into Toolsuite for further analysis.

Endpoint Guideline

Benchmark Image: Required Parameters: apiKey
HTTP Method : POST
http://api.cropdatadev.tk/drk/v1.0/add-benchmark-image?apiKey=**yourApiKey**

Request Parameter Definitions

Type	Name	Description
Request Param	apiKey	The “apiKey” is used to access the api, usually consumer specific.

Request Body Definitions

Type	Name	Description

Form Data	metadata	Metadata for an image.
		{
		"caseID": 1111,
		"commodityID": 2,
		"phenophaseID": 3,
		"plantPartID": 4,
		"stressTypeID": 5,
		"stressID": 69,
		"stressStageID": 7
		}

Form Data	image	Image file as **MultipartFile**.

Response JSON Sample

Response Code : 200

- Response Contains a JSON object with **success** and **message** parameters.

```
{
    “success” : true,
    “message” : "Benchmark Image Added Successfully"
}
```

Status Codes

As described in "Tile assignment - Get villages from sub-region" section.

Error Codes

As described in "Tile assignment - Get villages from sub-region" section.

Error Samples

```
{
   "success": false,
   "errorCode": "DRKERR-004",
   "error": "Stress does not exist with ID : 6"
}

{
   "success": false,
   "errorCode": "DRKERR-004",
   "error": "Invalid Image. (Only jpeg images are accepted.)"
}
```

Submit Ground Truth

Spot Data

Required Parameters: apiKey
HTTP Method : POST
http://api.cropdatadev.tk/drk/v1.0/ground-truth/spot?apiKey=**yourApiKey**

Request Parameter Definitions

Type	Name	Description
Request Param	apiKey	The “apiKey” is used to access the api, usually consumer specific.

Request Body Definitions

Type	Description
Request Body	[

```
{
   "caseId":8,
   "villageCode":12,
   "regionId":1,
   "spots":[
      {
         "spotId":12346,
         "stress":[
            {
               "stressId":8,
               "severity":5
            },
            {
               "stressId":2,
               "severity":1
            }
         ]
      },
      {
         "spotId":123457,
         "stress":[
            {
               "stressId":4,
               "severity":4
            },
            {
               "stressId":5,
               "severity":1
            }
         ]
      }
   ]
},
{
   "caseId":32123,
   "villageCode":231,
   "regionId":1,
   "spots":[
      {
         "spotId":1234,
         "stress":[
            {
               "stressId":5,
               "severity":2
            },
            {
               "stressId":22,
               "severity":3
            }
         ]
      },
      {
         "spotId":2324356,
```

<table>
<tr>
<td></td>
<td>

```
            "stress":[
                {
                    "stressId":11,
                    "severity":1
                },
                {
                    "stressId":15,
                    "severity":2
                }
            ]
        }
    ]
},
...
]
```

</td>
</tr>
</table>

Response JSON Sample

Response Code : 200

- Response Contains a JSON object with **success** and **message** parameters.

```
{
   "success":true,
   "message":"4 spot ground truth data has been processed."
}
```

Status Codes

As described in "Tile assignment - Get villages from sub-region" section.

Error Codes

As described in "Tile assignment - Get villages from sub-region" section.

Error Samples

As described in "Tile assignment - Get villages from sub-region" section.

Farm OR Village Data

Required Parameters: apiKey
HTTP Method : POST
http://api.cropdatadev.tk/drk/v1.0/ground-truth?type=&apiKey=**yourApiKey**

Request Parameter Definitions

Type	Name	Description
Request Param	apiKey	The “apiKey” is used to access the api, usually consumer specific.

Request Param	type	Value which represents the type of data. (farm / village)

Request Body Definitions

Type	Description

Request Body	<pre>[
	  {
	  "caseId":8,
	  "villageCode":12,
	  "regionId":1,
	  "stress":[
	  {
	  "stressId":8,
	  "severity":5
	  },
	  {
	  "stressId":2,
	  "severity":1
	  }
	  ]
	  },
	  ...
	]</pre>

Response JSON Sample

Response Code : 200

- Response Contains a JSON object with **success** and **message** parameters.

<pre>{
  "success":true,
  "message":"4 Farm ground truth data has been processed."
}

{
  "success":true,
  "message":"4 Village ground truth data has been processed."
}</pre>

Status Codes

As described in "Tile assignment - Get villages from sub-region" section.

Error Codes

As described in "Tile assignment - Get villages from sub-region" section.

Error Samples

As described in "Tile assignment - Get villages from sub-region" section.

Add Benchmark Spots

Endpoint Guideline

Benchmark Spots: Required Parameters: apiKey
HTTP Method : POST
http://api.cropdatadev.tk/drk/v1.0/add-benchmark-spots?apiKey=**yourApiKey**

Request Parameter Definitions

Type	Name	Description
Request Param	apiKey	The “apiKey” is used to access the api, usually consumer specific.

Request Body Definitions

Type	Description

Request Body	[
	{
	"regionID" : 1,
	"subRegionID" : 12125,
	"caseID" : 2,
	"spotID" : 23987293872
	},
	{
	"regionID" : 1,
	"subRegionID" : 12125,
	"caseID" : 3,
	"spotID" : 23987245453
	}
	….
	]

Response JSON Sample

Response Code : 200

- Response Contains a JSON object with **success** and **message** parameters.

```
{
   "message": "Benchmark spots data has been processed.",
   "success": true
}
```

Status Codes

As described in "Tile assignment - Get villages from sub-region" section.

Error Codes

As described in "Tile assignment - Get villages from sub-region" section.

Error Samples

As described in "Tile assignment - Get villages from sub-region" section.

Data dependency from Tool Suite to DRK

1. Get tile-map HTML for PRM to display (Assign task to PRS)
2. Get Region wise MMPK file
3. Get village list from selected Sub-Region ID
4. Get NDVI+GT recommended monitoring spots in a Region
5. Get Dynamic Questions list for a Region
6. Get Farmer Rating - all data in a Region
7. Get Simple and benchmark NDVI images in a region

Tile assignment - Get Region Tile HTML and MMPK

Overview

This endpoint should be called using AJAX GET method from Javascript. This will return an HTML fragment.

Tile Assignment

Tile Assignment for a Region: Required Parameters: apiKey , regionId
HTTP Method: GET
http://api.cropdatadev.tk/drk/v1.0/tile-assignment/{regionId}?apiKey=**yourApiKey**

Request Parameter Definitions

Type	Name	Description
Request Param	apiKey	The “apiKey” is used to access the api, usually consumer specific.
Path Variable	regionId	Region Id

MMPK File

MMPK for a Region: Required Parameters: apiKey , regionId
HTTP Method: GET

```
http://api.cropdatadev.tk/drk/v1.0/region-mmpk/{regionId}?apiKey=yourApiKey
```

Request Parameter Definitions

As described in "Tile Assignment Endpoints " section.

Example Request

http://api.cropdatadev.tk/drk/v1.0/tile-assignment/26?apiKey=your-api-key
http://api.cropdatadev.tk/drk/v1.0/region-mmpk/26?apiKey=your-api-key
Note: Put your API Key at the end

Response Sample

Response Code : 200

- Response Contains an HTML Page with Tile Assignment Image.
- It also contains an HTML table with **data-sid** property which holds the TileID value for SubRegion.

```
<table>
    <tbody>
        <tr>
            <td data-sid="11238"></td>
            <td data-sid="11239"></td>
            <td data-sid="11240"></td>
            <td data-sid="11253"></td>
        </tr>
        <tr>
            <td data-sid="11234"></td>
            <td data-sid="11235"></td>
            <td data-sid="11236"></td>
            <td data-sid="11249"></td>
        </tr>
    </tbody>
</table>
```

Status Codes

As described in "Tile assignment - Get villages from sub-region" section.

Error Codes

As described in "Tile assignment - Get villages from sub-region" section.

Error Samples

As described in "Tile assignment - Get villages from sub-region" section.

Tile assignment - Get villages from sub-region

Overview

This endpoint will return a list of villages when a sub-region ID is given. It will return the village id and name in alphabetical order.

Endpoint Guideline

Get Villages for a SubRegion: Required Parameters: apiKey , subRegionId
HTTP Method : GET
http://api.cropdatadev.tk/drk/v1.0/get-villages-by-sub-region-id/{subRegionId}?apiKey=**yourApiKey**

Request Parameter Definitions

Type	Name	Description
Request Param	apiKey	The “apiKey” is used to access the api, usually consumer specific.
Path Variable	subRegionId	Sub-region ID will be an integer

Example Request

http://api.cropdatadev.tk/drk/v1.0/get-villages-by-sub-region-id/3165?apiKey=

Note: Append your API Key.

Response JSON Sample

Response Code : 200

- Response Contains a **List** of **Villages**.
- **Village** a JSON object which holds two parameters **villageCode** and **villageName**.


```
[
  {
    "villageCode": 544716,
    "villageName": "GADEGAON"
  },
  {
    "villageCode": 544729,
    "villageName": "PUNEGAON"
  },
   {
    "villageCode": 544752,
    "villageName": "WAJEGAON"
  },
  ...
]
```


Status Codes

Code	Description
406	The Provided API key is invalid.

Error Codes

Code	Description
DRKERR-001	Api Key is required to access this Resources
DRKERR-002	Invalid API Key
DRKERR-003	Value for the required parameter must be Integer.

Error Samples


```
{
  "path": "http://6e1679f2cdda:8080/v1.0/tile-assignment/20",
  "success": false,
  "error": "DRKERR-001",
  "message": "Api Key is required to access this Resource"
}

{
  "path": "http://6e1679f2cdda:8080/v1.0/tile-assignment/20",
  "success": false,
  "error": "DRKERR-002",
  "message": "Invalid API Key"
}

{
  "path": "http://6e1679f2cdda:8080/v1.0/tile-assignment/ss",
  "success": false,
  "errorCode": "DRKERR-003",
  "error": "Value for the required parameter must be Integer."
}
```


MBEP & PMP Calculators

Overview

MBEP calculator generates Region, Commodity and Variety wise Minimum Best Effort Price to give the farmers.

MBEP

Get mebp: Required Parameters: apiKey
HTTP Method : GET
http://api.cropdatadev.tk/drk/v1.0/mbep?unixTimestamp=0&apiKey=**yourApiKey**

Request Parameter Definitions

Type	Name	Description
Request Param	apiKey	The “apiKey” is used to access the api, usually consumer specific.
Request Param	unixTimestamp	Timestamp parameter, this will return only those records that have been updated after the given timestamp.

Example Request

http://api.cropdatadev.tk/drk/v1.0/mbep?unixTimestamp=0&apiKey=yourApiKey

Note: Append your API Key.

Response JSON Sample

Response Code : 200

- Response Contains all requested values and mbep value .


```
[{
   "stateCode": 6,
   "districtCode": 65,
   "commodityID": 2,
   "varietyID": 153,
   "mbep": 19250.0
  },
  {
   "stateCode": 6,
   "districtCode": 65,
   "commodityID": 2,
   "varietyID": 153,
   "mbep": 19250.0
  },
  {
   "stateCode": 6,
   "districtCode": 65,
   "commodityID": 2,
   "varietyID": 162,
   "mbep": 19250.0
}]
```


PMP

Get pmp value: Required Parameters: apiKey
HTTP Method : GET
http://api.cropdatadev.tk/drk/v1.0/pmp?unixTimestamp=0&apiKey=**yourApiKey**

Request Parameter Definitions

As described in "mbep " section.

Example Request

http://api.cropdatadev.tk/drk/v1.0/pmp?unixTimestamp=0&apiKey=yourApiKey

Note: Append your API Key.

Response JSON Sample

Response Code : 200

- Response Contains all requested values and pmp value .


```
[{
   "stateCode": 6,
   "districtCode": 65,
   "commodityID": 2,
   "varietyID": 153,
   "pmp": 19250.0
  },
  {
   "stateCode": 6,
   "districtCode": 65,
   "commodityID": 2,
   "varietyID": 153,
   "pmp": 19250.0
  },
  {
   "stateCode": 6,
   "districtCode": 65,
   "commodityID": 2,
   "varietyID": 162,
   "pmp": 19250.0
  },
]
```


Status Codes

As described in "Tile assignment - Get villages from sub-region" section.

Error Codes

As described in "Tile assignment - Get villages from sub-region" section.

Error Samples


```
{
   "success": false,
   "errorCode": "DRKERR-009",
   "error": "Data not available."
}
```

Get Monitoring Spots

Get recommended spots to monitor By RegionID. Requests will be by region, as a bulk response.

Required Parameters: apiKey
HTTP Method : GET
http://api.cropdatadev.tk/drk/v1.0/case/monitoring-spots?regionId=**<RegionID>**&apiKey=**<yourApiKey>**

Request Parameter Definitions

Type	Name	Description
Request Param	apiKey	The “apiKey” is used to access the api, usually consumer specific.
Request Param	regionId	For retrieving spots for the given case.

Response Sample

Response Code : 200

- Response contains a list of monitoring spots in the whole region.
- Example: [

```
        {
                “caseId” : 7388377467589837467,
                “spots” : [
                        { “lat” : 23.88392883, “long” : 123.88332239},
                        { “lat” : 23.88392883, “long” : 123.88332239},
                ]
        },
        {
                “caseId” : 7388377467589837467,
                “spots” : [
                        { “lat” : 23.88392883, “long” : 123.88332239},
                        { “lat” : 23.88392883, “long” : 123.88332239},
                ]
        },
        ...
]
```

Status Codes

As described in "Tile assignment - Get villages from sub-region" section.

Error Codes

As described in "Tile assignment - Get villages from sub-region" section.

Error Samples

As described in "Tile assignment - Get villages from sub-region" section.

Get Farms to Monitor

This API will return the CaseIDs of all the farms in a region that needs monitoring, this gets determined by analysing satellite data.

Endpoint: /farms-to-monitor?regionId=2&apiKey=YourApiKey
Method: Get

Response example: {
"farmId" : [6726536747837645678, 6726536747837645679, ...]
}

Will be given in the next version.

Get Dynamic Questionnaire by Region

This API will return required question IDs for each farm. Passing the RegionID and list of FarmIDs to monitor will return the list of questions.

Endpoint: /dynamic-questionnaire?regionId=2&apiKey=YourApiKey
Method: Post

Request body: {
"caseId" : [6726536747837645678, 6726536747837645679, ...]
}

Response example: {
{
"caseId" : 6726536747837645678,
"questions" : [234,364,889,1234, ...]
},
{
"caseId" : 6726536747837645679,
"questions" : [234,364,889,1234, ...]
},
...
}

Will be given in the next version.

Get Farmer Rating

This API will return requested farmers' ratings for a given region. Passing the RegionID and list of FarmerIDs will return the list of ratings.

Endpoint: /farmer-rating?regionId=2&apiKey=YourApiKey
Method: Post

Request body: {
"farmerId" : [6726536747837645678, 6726536747837645679, ...]

}

Response example: {

{

“farmerId” : 6726536747837645678,

“rating” : 5

},

{

“farmerId” : 6726536747837645679,

“rating” : 4

},

...

}

Will be given in the next version.

Get Benchmark NDVI

This API will return a benchmark NDVI image for a given caseID, year and week.

NDVI for a Case: Required Parameters: apiKey, caseId, year, week
HTTP Method: GET
http://api.cropdatadev.tk/drk/v1.0/benchmark-ndvi/?caseId=**<CaseID>**&year=**<year>**&week=**<week>**&apiKey=**<yourApiKey>**

Request Parameter Definitions

- **caseId -** is required to determine the farm/field. Expecting a bigint value.
- **year, week -** year and week will be required to get the required NDVI from the time series data gathered for NDVI

Example Request

http://api.cropdatadev.tk/drk/v1.0/benchmark-ndvi?caseId=5678987654324567897&year=2020&week=8&apiKey=your-api-key

Response Sample

Response Code : 200

- Response contains a URL of the benchmark NDVI image and the year and week for which the image has been returned. Given year-week can be different from the returned year-week in case of bad cloud coverage.
- **Example:** {
  "url" : "http://azure-blob-storage.com/benchmark-ndvi/7134792832798-2020-23.jpeg",
  "Year" : "2020",
  "Week" : "8"
  }

Status Codes

As described in "Tile assignment - Get villages from sub-region" section.

Error Codes

As described in "Tile assignment - Get villages from sub-region" section.

Error Samples

As described in "Tile assignment - Get villages from sub-region" section.

Get Simple NDVI

This API will return a few simple NDVI images for a given caseID, year and week.

Simple NDVI for a Case: Required Parameters: apiKey, caseId, year, week
HTTP Method: GET

http://api.cropdatadev.tk/drk/v1.0/simple-ndvi/?caseId=**<CaseID>**&year=**<year>**&week=**<week>**
&apiKey=**<yourApiKey>**

Request Parameter Definitions

- **caseId -** is required to determine the farm/field. Expecting a bigint value.
- **year, week -** year and week will be required to get the required NDVI from the time series data gathered for NDVI

Example Request

http://api.cropdatadev.tk/drk/v1.0/simple-ndvi?caseId=5678987654324567897&year=2020&week=8&apiKey=your-api-key

Response Sample

Response Code : 200

- Response contains one or more URLs of benchmark NDVI images and the year and week for which the image has been returned.
- **Example:** {

```
[
   “url” :  “http://azure-blob-storage.com/simple-ndvi/7134792832798-2020-23.jpeg”,
   “Year” : “2020”,
   “Week” : “8”
],
[
   “url” :  “http://azure-blob-storage.com/simple-ndvi/7134792832798-2020-23.jpeg”,
   “Year” : “2020”,
   “Week” : “8”
],
….
}
```

Status Codes

As described in "Tile assignment - Get villages from sub-region" section.

Error Codes

As described in "Tile assignment - Get villages from sub-region" section.

Error Samples

As described in "Tile assignment - Get villages from sub-region" section.