

# Formatting Requirements for Plantation Boundary Data Submission Guidelines



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# Introduction

The Roundtable on Sustainable Palm Oil (RSPO) requires Members who own and manage plantations to submit boundaries of their palm oil plantations for transparency purposes. As mandated by <u>Resolution 6g GA 10</u>, members are also required to submit the boundaries of their milling operations, managed areas and scheme/associated smallholders.

To streamline the plantation boundary submission process, the RSPO strongly encourages members to maintain GIS capacity, and requests that members with access to GIS software follow this data submission guidance.

This guidance explains the data submission template that members should use in procedures that require plantation boundary submissions such as Annual Communication of Progress (ACOP) submission, membership application, disclosure submission, Remediation and Compensation Procedure (RaCP), New Planting Procedure and other procedures that requires plantation boundary data submission. Members should follow the general folder structure and naming guidance, and the shapefile attribute table guidance. This template can also be used as basis of other geospatial data submissions to the RSPO Secretariat.

This guideline also expands the opportunity for the growers to submit the data by having two options of file formats:

- 1. Shapefile (.shp) and its associated file extensions (.shx, prj, and .dbf). Note: This dataset is not readable without the associated extensions.
- 2. Geodatabase (.gdb)

Other file formats such as KML, JPEG, PNG, PDF, DWG and TIFF will not be accepted.

### Scope

The scope of data submission is mainly based on the compliance, procedure and/or requirement it is intended to fulfil.

For general purposes such as ACOP submission and boundary update, the submission must cover all oil palm growing operations globally, whether certified, uncertified, owned or directly managed by the parent company. For specific purposes such as RaCP and NPP, the data should be submitted as per the disclosed supply bases for the procedure.

The dataset must be grouped by supply base/s that are being, or to be audited for compliance with RSPOrelated standards.

# Coordinate system and projection

The default coordinate system acceptable for the data submission is as below:

Item	Details
Projected Coordinate System	WGS 1984 World Mercator
Projection	Mercator
Datum	WGS84
WKID Code	3395
Authority	EPSG

Alternatively, due to the localised nature of the plantations, local projection and datum is acceptable (such as MAGNA Colombia Bogota (EPSG 3116) and SRGI2013 UTM Zone 49S (EPSG 9486), provided full coordinate system metadata, including projection, datum, and WKID code, is submitted to the Secretariat.

# **Coordinate format**

For mill information, it is requested that all milling global facilities of your suppliers, whether certified or uncertified, are also submitted. The coordinates must be in decimal degrees format with the accuracy to at least six decimal places. The value of the coordinates must be between:

- Longitude (x): Between -180 and +180.
- Latitude (y): Between -90 and +90.

Example:

100.708132, 4.673595 17.935095, -94.731538 -74.011722, 10.101656

# Naming convention and folder structure

A folder can contain all required datasets from each parent company, which can be more than one Dataset Group (refer Table 2).

#### a. Folder naming guide

The boundary data should be submitted in a folder with the following naming convention.

# <MembershipNumber>\_<Parent>\_<Sector>\_<Year>

Example:

1-0119-12-000-02\_ABCGroup\_Grower\_2024

Folder Name Section	Description and Guidance				
MembershipNumber	RSPO Membership number in the current year				
Parent	Name of parent company				
	RSPO Membership sector Shortened name to use in the folder name:				
	Membership sector	Shortened name			
	Affiliate	Affiliate			
	Banks and Investors	Banks or Investors			
	Consumer Goods Manufacturers	Manufacturers			
	Environmental or Nature Conservation	ECNGO			
Sector	Organisations				
	Oil Palm Growers	Growers			
	Palm Oil Processors and/ or Traders	Processors or			
		Traders			
	Retailers	Retailers			
	Social or Developmental Organisations	SDNGO			
	Supply Chain Associate	SupplyChain			
Year Year of data submission to RSPO					

#### Table 2: Folder naming guidance

#### b. Plantation boundary and mill naming guide

The boundary and mill data file should be submitted using the following naming convention:

#### Shapefile format:

#### <Subsidiary>\_<SupplyBase>\_<DatasetGroup>\_<ProjectionDatum>.<FileFormat>

#### Example:

 $ABCCompany\_DEFEstate\_Grower\_WGS84UTMZone48N.shp,$ 

ABCCompany\_DEFEstate\_Grower\_WGS84UTMZone48N.shx,

ABCCompany\_DEFEstate\_Grower\_WGS84UTMZone48N.dbf and

ABCCompany\_DEFEstate\_Grower\_WGS84UTMZone48N.prj

#### Geodatabase format:

#### < Subsidiary >\_<SupplyBase>\_<DatasetGroup>\_<ProjectionDatum>.gdb

Example of feature classes name within the geodatabase:

ABCAssociation\_DEFEstate\_ISH

ABCCompany\_DEFEstate\_Grower

ABCAssociation\_DEFEstate\_SSH

ABCCompany\_DEFEstate\_MillPoint

File naming guidance can be referred to Table 3.

File Name	File Name Description and Guidance						
Section							
Subsidiary	Name of subsidiary company	Name of subsidiary company					
SupplyBase	Supply base name	upply base name					
	Dataset group and its shortened name to use in the fo	lder name:					
	Dataset group	Shortened name					
	Oil Palm Growers palm oil plantations boundary	Grower					
DatasetGroup	Scheme smallholder palm oil plantations boundary	SSH					
Datasetoroup	Independent Smallholder palm oil plantations	ISH					
	boundary						
	Mill location (point)	MillPoint					
	Mill location (boundary)	MillPolygon					

#### Table 3: Dataset file naming guidance



File Name	Description and Guidance				
Section					
ProjectionDatum	Projection and datum of the dataset/feature. Ref	er Coordinate system and			
	projection section.				
	File format				
	File format	File Extension			
	Shapefile and its associated file extensions.	.shp, .shx, .dbf, <b>and</b>			
	All listed extensions are required in	.prj			
	every data submission.				
FileFormat	<ul> <li>shp - main file that stores the feature geometry</li> <li>.shx - index file that stores the index of the feature geometry</li> <li>.dbf - dBASE table that stores the attribute information</li> <li>.prj - file that stores the coordinate system information</li> <li>Each file must have the same prefix.</li> </ul>				
	Geodatabase	.gdb			

# Data field and Attribute table structure

The fields in the attribute table for both shapefile and geodatabase are the same, as shown in Table 4, 5 and 6. A ready-to use attribute table template based on the attribute table structure listed in Table 3 can be obtained from this link: <u>RSPO Data Template for Shapefile Geodatabase file format</u>.



Field Name	Alias	Description	Data Type & field length	Example	Mandatory to fill in by
		Section A: General fields for all c	lataset group		
MemberNum*	Membership Number	RSPO membership number	Text (50)	1-0014-04-000-00	All RSPO Members
Parent*	Parent Name	RSPO membership name	Text (254)	ABC Group	All submission
MemberCat*	Membership Category	<ul> <li>Membership category of this polygon</li> <li>Attribute option: <ol> <li>Grower</li> <li>Independent Smallholder</li> <li>Scheme Smallholder</li> <li>Outgrower</li> <li>Scheme Outgrower</li> </ol> </li> </ul>	Text (254)	Pick from attribute option in Description column	All RSPO Members
MemberYear*	Membership Year	Year of RSPO membership is granted to the parent company	Short (4)	2016	All RSPO Members
Subsidiary*	Subsidiary	Subsidiary	Text (254)	PT XYZ	All RSPO Members
ManageUnit*	Management Unit	Management Unit name	Text (254)	PT Mentari Merah	All RSPO Members
SupplyBase*	Supply Base	Name of supply base	Text (254)	DEF Estate	All RSPO Members
SBType	Supply Base Type	Type of supply base. Attribute option: 1. Grower 2. Scheme smallholder (managed)	Text (254)	Pick from attribute option in Description column	Certified Member

# Table 4: Field list and attribute description for both plantation boundary and mill dataset



Field Name	Alias	Description	Data Type & field length	Example	Mandatory to fill in by
		3. Scheme smallholder	neid iengtii		
		(non-managed)			
		4. Independent smallholder			
UOC*	Unit of Certification	Unit of Certification name	Text (254)	DEF Estate	Certified Member
Mill*	Palm Oil Mill	Palm Oil Mill name	Text (254)	DEF Mill	Certified Member
AreaHa	Area (ha)	Total land area of supply	Double	4500.053	All RSPO Members
		base/management unit in	(Precision,		
		hectare (ha)	scale: 10,3)		
AreaHaCert	Certified Area (ha)	Total certified area in hectare	Double	500.055	Certified Member
		(ha)	(Precision,		
			scale: 10,3)		
RSPOPOID	RSPO PO ID	RSPO PO ID	Text (254)	RSPO_PO1000015524	Certified Member
CertBody	Certification Body	Name of certification body	Text (254)	Control Union	Certified Member
				(Malaysia) Sdn Bhd.	
CertStatus*	Certification Status	Certification Status	Text (20)	Pick from attribute	All RSPO Members
		Attribute option:		option in Description	
		1. Active		column	
		2. Suspended			
		3. Expired			
		4. Not Certified			
ICDate	Initial Certification Date	Date of initial certification	Date (YYYY-	2024-12-31	Certified Member
			MM-DD)		
CertNumIC	Initial Certification Number	RSPO certificate number of	Text (254)	CU-RSPO-849855	Certified Member
		initial certification			



Field Name	Alias	Description	Data Type & field length	Example	Mandatory to fill in by
CertNumCC	Current Certification Number	RSPO certificate number of	Text (254)	CU-RSPO-849854	Certified Member
		current certification			
StartCC	Current Certification Start	Start date of current	Date (YYYY-	2024-12-31	Certified Member
	Date	certification	MM-DD)		
EndCC	Current Certification End Date	End date of current	Date (YYYY-	2024-12-31	Certified Member
		certification	MM-DD)		
PermitType	Permit Type	Land development permit	Text (254)	Hak Guna Usaha	All RSPO Members
		type (e.g. HGU/Land title/			
		IUP/ Land Lease)			
PermitDate	Permit Date	Permit expiry date	Date (YYYY-	2024-12-31	All RSPO Members
			MM-DD)		
PermitNum	Permit Number	Permit number	Text (254)	SK HGU No.	All RSPO Members
				29/HGU/BPN.RI/2010	
State*	State	State of the concession (if	Text (254)	Johor	All RSPO Members
		applicable)			
Province*	Province	Province of the concession (if	Text (254)	East Kalimantan	All RSPO Members
		applicable)			
Country*	Country	Country of the concession	Text (254)	Brazil	All RSPO Members
RemarksG	Remarks by Grower	Remarks/ additional	Text (254)		If applicable
		information from the			
		company			
RemarksR	Remarks by RSPO	Remarks/ additional	Text (254)	Overlaps detected	If applicable
		information from the RSPO			
		Secretariat			



Field Name	Alias	Description	Data Type & field length	Example	Mandatory to fill in by
RaCPID	RaCP ID	ID from the Remediation and	Text (254)	RaCP-3486	if applicable
		<b>Compensation Procedure</b>		(Generated by RSPO	
				Secretariat after	
				disclosure submission)	
		Section B: Additional fields for ISH a	and SSH dataset		
FarmerName	Farmer Name	Name of the scheme or	Text (254)	Single owner:	Independent
		independent smallholder		Kartika	Smallholder (ISH)
		farmer. Multiple owner name		Or	
		to be separated by comma (,)		Multiple owner:	
				Syahirah, Azlyn, Mario,	
				Mufasa	
FarmerID	Farmer ID	The ID of the farmer. The	Text (254)	860403566210	Independent
		input data can be any ID used			Smallholder (ISH)
		by the Group Manager to			
		identify the plot owner e.g.			
		the identity card number			
PlotID	Plot ID	The ID of the plot. The input	Text (254)	Maria A, or	All RSPO Members
		data can be any ID used by		Kartika 69, or	(ISH)
		the Group Manager to		PLY2847	
		identify the plot.			



Field Name	Alias	Description	Data Type & field length	Example	Mandatory to fill in by
	Section C:	Additional fields for both point	and polygon mill	data	
SBLong	Supply Base Longitude	Longitude (x) of supply base	Double	101.708250	Mill only
		in WGS 1984 World Mercator	(Precision,	or	
			scale: 10,6)	-101.708250	
SBLat	Supply Base Latitude	Latitude (y) of supply base in	Double	1.634250	Mill only
		WGS 1984 World Mercator	(Precision,	or	
			scale: 10,6)	-1.634250	

Note: Attributes in fields marked with the \* symbol will be shown in GeoRSPO. Other attributes are stored in RSPO's internal database and will not be disclosed to the public.

#### Important notes:

- 1. Geospatial data shall be prepared by competent Geospatial professionals with working knowledge of GIS data structures and formats.
- To maintain data integrity and prevent spatial conflicts, a topology check must be performed to identify any overlapping concession boundaries. Any identified overlaps must be corrected prior to any data submissions. Overlapping polygons will cause errors in hectarage calculation, traceability, and monitoring activities.
- 3. Shapefiles must be organized within the **correct folder structure** and use **proper naming conventions** as listed in Table 1. If needed, please use underscores (\_) to replace spacing.
- 4. Please ensure that the plantation/mill data are provided based on legal documents such as land tile, land deeds and/ or certified plan or official survey data.
- 5. Unrelated auxiliary data (e.g., rivers, roads, buildings, lakes) shall not be included in the submission.
- 6. If your organisation does not have oil palm concession, milling operations or scheme/associated smallholder dataset, **do not submit empty data template.**



The RSPO is an international non-profit organization formed in 2004 with the objective to promote the growth and use of sustainable oil palm products through credible global standards and engagement of stakeholders.



RSPO will transform markets to make sustainable palm oil the norm

FIND OUT MORE AT www.rspo.org

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