Instructions for Data providers on necessary information in each data field

Data Field	Note	
Technical information		
Description	 MANDATORY FIELD ➤ This field should provide enough description to tell the user basically what the value presented is, without being too wordy or generic. ➤ Data providers should follow, to the extent possible, the terminology used in the IPCC Methodology Reports. 	
Properties	MANDATORY FIELD (At least one of five sub-fields should be filled.) → "Properties" define what EFDB users might see as important information after the categorisation stage in searching or inputting data. → This field consists of 5 sub-fields as shown below. Necessary information should be fully described in appropriate sub-fields. • Technologies/Practices For example: - combustion technology - fertiliser dosage - manure management system For 3.B and 3.C of the 2006 IPCC Guidelines: - land subcategory/subdivision • Abatement/Control Technologies For example: - CO2 capture - catalyst type For 3.B and 3.C of the 2006 IPCC Guidelines: - management type & intensity • Parameters/Conditions For example, for 3.B and 3.C of the 2006 IPCC Guidelines: - vegetation/crop type/subtype; - species; - biomass attributes/age; - soil type/nutrient content. • Region/Regional Conditions For example: - country For 3.B and 3.C of the 2006 IPCC Guidelines: - spatial boundaries (country, continent, etc.); - climate (zone); - ecological zone; - temperature; - moisture. • Other Properties ➤ Information to be included as properties varies from one source	
	category to another.	

Value	MANDATORY FIELD
	Values should be precisely indicated.
	> If the proposal is a range of value rather than a single value, it should
	be indicated as " $10 - 20$ " for example.
	A range of value should be distinguished from uncertainty ranges.
	(Uncertainty ranges should be indicated in Upper and Lower
	Confidence Limit fields.)
	➤ The appropriate unit should be chosen from the drop-down list. If there
	is not any appropriate unit in the list, type the new unit in the field.
Value in	➤ If the value is presented with such a unit that is not used in the <i>IPCC</i>
common unit	Guidelines (e.g., barrel or gallon for petroleum) in the "Value" field
	above, you are encouraged to convert it into a value in unit commonly
	used in the <i>IPCC Guidelines</i> (e.g., tC/TJ for Carbon emission factors
	for Fuels) and indicate it in this field.
Equation	> If the proposed data fit an equation presented in the <i>IPCC Guidelines</i> or
	GPG reports, the following information should be clearly indicated for
	users' convenience.
	1) Equation number (if applicable)
	2) Page number
	3) IPCC Methodology Reports (e.g. 2006 IPCC Guidelines, Revised
	1996 IPCC Guidelines, GPG2000 or GPG-LULUCF) For example, "Equation 4.15 on Page 4.30 of the IPCC Good Practice"
	For example, "Equation 4.15 on Page 4.30 of the IPCC Good Practice Guidance and Uncertainty Management in National Greenhouse Gas
	Inventories"
	 If no IPCC equation fits, it is desirable to refer to technical reference or
	source of data where equation is found and can be used.
IPCC	For the proposed data fit a worksheet of the <i>IPCC Guidelines</i> , correct
Worksheet	worksheet numbers should be indicated for users' convenience. (For
No.	example, "Worksheet 4-1, Sheet 1 of 2")
	> If the data are not applicable to any IPCC worksheets, then this field
	should be "Not applicable".
Source of	MANDATORY FIELD
data	➤ The appropriate source should be chosen from the drop-down list in the
	data entry form.
	For non-defaults:
	Peer-reviewed journal
	 National inventory report
	National Communications
	Biennial Update Report
	• Other
Full	MANDATORY FIELD
Technical	Technical reference should be quoted fully and precisely.
Reference	> D
URL	Data providers can specify external URL link of web site where more information about amission factor or other parameter can be found
	information about emission factor or other parameter can be found.
Reference	MANDATORY FIELD
Language	
	It should be indicated in which language the technical reference is

Abstract in	> Data providers are encouraged to provide the abstract in English of the
English	technical reference in order to enable EFDB users to better understand
	the nature of the data.
Lower/Upper	MANDATORY FIELDS
Confidence	➤ If no information on the lower/upper values is available, "Unknown"
Limit	should be chosen from drop-down list.
(Uncertaintie	➤ Do not confuse with a range of value which should be indicated in
s expressed as	"Value" field.
95%	
confidence	
limit ¹)	
Data quality	➤ If data quality ratings have been made by the data provider according to
	his/her own standard, the information can be quoted here. The
	explanation of the standard used should be also provided.
	No new quality rating scheme will be developed specifically for the
	EFDB.
Data quality	Reference should be indicated if it is different from the technical
reference	reference presented above.
Other	Other information relevant to the data quality, if any.
information on	For example, clarification of the following points could be given.
data quality	 Are the measurement techniques including raw data validated and/or verified?
	 Are the modelling techniques including supporting data validated and/or verified?
	• Is the extrapolation from the model assumptions or measurement
	conditions to annual emission factors sufficiently treated?
Distribution	➤ If applicable, appropriate information should be chosen from the drop-
shape (ID)	down list. If no desired value exists in the list "Other" should be
	chosen.

Usage/Review information		
Type of	MANDATORY FIELD	
parameter (ID)	Currently, there are three types of non-default parameters defined:	
	Measured	
	Modelled	
	Other (e.g. Compiled)	
	➤ Data providers can choose only one of these three types from the drop-down list in the data entry form.	
	➤ In case "Other (e.g. Compiled)" is chosen, the data provider should	
	provide an explanatory note on the type of parameter in the "Comments	
	from the data provider" field.	

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¹ Confidence limits give the range within which the underlying value of an uncertain quantity is thought to lie for a specified probability. This range is called the confidence interval. The *IPCC Guidelines* suggest the use of a 95% confidence interval which is the interval that has a 95% probability of containing the unknown true value.

Measurement	These fields are relevant only when the data provider choose
technique/	"Measured" as "Type of parameter".
standard	➤ Data providers are highly encouraged to provide appropriate
Periodicity of measurement	information (e.g., description about representativeness of sampling) unless it is not available at all.
External quality control performed	 In particular, clarification of the following points should be given in the field "Measurement technique/standard". Are measurement techniques/standards used comparable with national or internationally recognised standards?
Date of	In particular, clarification of the following points should be given in the
measurement	field "Periodicity of measurement".
	 Have measurements been made on multiple systems or sites and over sufficient time and range of conditions to capture the variability of emissions and to provide a stable annual average?
Date calculated	This field can be left blank if the information is not available.
Comments from Data	Any other information relevant to the proposed data can be provided in this field.
Provider	For example, data providers are encouraged to provide additional description of emission factor development where needed to elaborate.
	Data providers can also provide information on further improvement need to be done and describe what measures could be taken to improve its accuracy and applicability.
	In the case that data providers have not directly consulted the original author, it should be mentioned in this field.

Administrative information		
Data Provider	MANDATORY FIELDS	
Data Provider Country (CODE)	Enter the name of data provider and choose a country from the drop-down list in the EFDB data entry form.	
Data Provider Contact (email address)	The data provider is encouraged to show his/her e-mail address. If no email address is provided, ipcc-efdb@iges.or.jp will be shown in this field so as to enable EFDB users to contact him/her (the data source) via Technical Support Unit of the IPCC Task Force on National Greenhouse Gas Inventories (IPCC TFI TSU).	