

Addendum
to the Technical handbook for developing country
Parties on preparing for implementation of the
enhanced transparency framework under the Paris
Agreement
First Edition (June 2020)

Consultative Group of Experts



United Nations
Framework Convention on
Climate Change

This document is an addendum to the first edition of the technical handbook, developed by the Consultative Group of Experts (CGE) with the support of the secretariat, for developing country Parties on preparing for implementation of the enhanced transparency framework under the Paris Agreement. Decision 18/CMA.1 and its annex, decision 2/CP.17 and annex III, and decision 17/CP.8 and its annex remain the authoritative source and constitute the basis for the preparation of biennial transparency reports, biennial update reports and national communications, respectively. The CGE strongly encourages countries that are planning to use the technical handbook and this addendum to do so in conjunction with the MPGs contained in decision 18/CMA.1 and its annex, and any relevant decisions thereafter.

The CGE intends to undertake periodic update to take into account feedback from the readers and practitioners, as well as to correct remaining errors, if any.

This table provides a compilation of reporting provisions contained in decision 17/CP.8 and its annex for the preparation of national communications, decision 2/CP.17 and annex III for the preparation of biennial update reports, and decision 18/CMA.1 and its annex for the preparation of biennial transparency reports (excluding paragraphs 1 to 14 and paragraphs 146 to 199). The table aims to aid the readers get a clearer understanding how reporting provisions for these reports feature in their respective modalities, procedures and guidelines.

Main element	National Communications (non-Annex I Parties) – provisions contained in decision 17/CP.8 and its annex	Biennial Update Reports (non-Annex I Parties) – provisions contained in decision 1/CP.17 and annex III	Biennial Transparency Reports (All Parties with flexibility to those developing country Parties that need it in the light of their capacities) – provisions contained in decision 18/CMA.1 and its annex
National circumstances	<p>3. [...] SHOULD [...] description of their national and regional development priorities, objectives and circumstances, [...] address climate change and its adverse impacts. This description MAY include [...] geography, climate and economy which MAY affect their ability to deal with [...] climate change.</p> <p>4. [...] ENCOURAGED [...] summary of relevant information</p>	<p>2a. Provide an update to the most recently submitted national communication in the following areas: (a) Information on national circumstances and institutional arrangements relevant to the preparation of the national communications on a continuous basis;</p>	<p>Provisions on reporting national circumstances and institution arrangements are contained in chapter II to VI of annex to decision 18/CMA.1</p>

COLOUR CODING

shall – red | should; may, encouraged; could; as appropriate; to the extent possible – light blue | flexibility - light green | table, tabular, textual, narrative, quantitative, qualitative – purple

Main element	National Communications (non-Annex I Parties) – provisions contained in decision 17/CP.8 and its annex	Biennial Update Reports (non-Annex I Parties) – provisions contained in decision 1/CP.17 and annex III	Biennial Transparency Reports (All Parties with flexibility to those developing country Parties that need it in the light of their capacities) – provisions contained in decision 18/CMA.1 and its annex
	<p>regarding their national circumstances, AS APPROPRIATE, in TABULAR form.</p> <p>5. [...] MAY [...] description of existing institutional arrangements relevant [...] national communications on a continuous basis.</p>		
Inventory	<p>6. [...] SHALL [...] communicate [...] a national inventory [...]</p> <p>7. [...] SHALL estimate national GHG inventories [...] 1994 for the initial national communication or alternatively MAY provide data for the year 1990. For the second national communication, [...] SHALL estimate national GHG inventories [...] year 2000. The least developed country Parties COULD estimate [...] years at their discretion.</p> <p>A. Methodologies</p> <p>8. [...] SHOULD use the Revised 1996 [...] (IPCC) Guidelines [...]</p> <p>9. [...] MAY use different methods (tiers) included in the Guidelines, [...] As ENCOURAGED by the IPCC Guidelines, [...] can also use national methodologies [...]</p>	<p>3. [...] SHOULD submit updates of national GHG inventories according [...] annex to decision 17/CP.8. The scope of the updates on national GHG inventories SHOULD be consistent with capacities, time constraints, data availabilities and the level of support provided by developed countries Parties for biennial update reporting.</p> <p>4. [...] SHOULD use the methodologies established by the latest UNFCCC guidelines for the preparation of national communications from non-Annex I Parties approved by [...] (COP) or those determined by any future decision of the COP on this matter.</p> <p>5. The updates of the sections on the national inventories [...] SHOULD contain updated data on activity levels based on the best information available using the Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories [...] IPCC good practice guidance for</p>	<p>National inventory report of anthropogenic emissions by sources and removals by sinks of greenhouse gases</p> <p>A. Definitions</p> <p>17. Definitions of the GHG inventory principles used SHALL be as provided in 2006 IPCC Guidelines), volume 1, chapter 1, section 1.4.</p> <p>B. National circumstances and institutional arrangements</p> <p>18. [...] SHOULD implement and maintain national inventory arrangements [...]</p> <p>19. Each Party SHALL report on the following functions:</p> <ul style="list-style-type: none"> (a) Its national entity or national focal point with overall responsibility for the national inventory; (b) Its inventory preparation process, including division of specific responsibilities of institutions [...] <p>C. Methods</p> <p>1. Methodologies, parameters and data</p> <p>20. [...] SHALL use the 2006 IPCC Guidelines, and SHALL use any subsequent version or refinement of the IPCC guidelines agreed upon by the COP CMA. Each Party is ENCOURAGED to use the 2013 Supplement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories: Wetlands.</p>

COLOUR CODING

shall – red | should; may, encouraged; could; as appropriate; to the extent possible – light blue | flexibility - light green | table, tabular, textual, narrative, quantitative, qualitative – purple

Main element	National Communications (non-Annex I Parties) – provisions contained in decision 17/CP.8 and its annex	Biennial Update Reports (non-Annex I Parties) – provisions contained in decision 1/CP.17 and annex III	Biennial Transparency Reports (All Parties with flexibility to those developing country Parties that need it in the light of their capacities) – provisions contained in decision 18/CMA.1 and its annex
	<p>10. [...] default factors, data and assumptions MAY not always be appropriate for specific national circumstances, [...] ENCOURAGED to use their country-specific and regional emission factors and activity data [...] ENCOURAGED to formulate cost-effective national or regional programmes [...] country-specific or regional emissions factors and activity data.</p> <p>11. [...] ENCOURAGED to apply the IPCC Good Practice Guidance and Uncertainty [...]</p> <p>12. [...] ENCOURAGED, TO THE EXTENT POSSIBLE, to undertake any key source analysis as indicated in the IPCC good practice guidance [...]</p>	<p>LULUCF); any change to the emission factor MAY be made in the subsequent full national communication.</p> <p>6. [...] ENCOURAGED to include, AS APPROPRIATE and to the extent that capacities permit, [...] TABLEs included in annex 3A.2 to the IPCC good practice guidance for LULUCF and the sectoral report TABLEs annexed to the Revised 1996 IPCC Guidelines.</p> <p>7. [...] ENCOURAGED to provide a consistent time series back to the years reported in the previous national communications.</p> <p>8. [...] previously reported on their national GHG inventories contained in their national communications are ENCOURAGED to submit summary information TABLEs of inventories for previous submission years (e.g. for 1994 and 2000).</p> <p>9. [...] SHOULD consist of a national inventory report as a summary or as an update of the information contained in chapter III (National greenhouse gas inventories) of the annex to decision 17/CP.8, including TABLE 1, [...] and TABLE 2...</p>	<p>21. [...] SHALL use methods from the IPCC guidelines referred to in paragraph 20 above. Each Party SHOULD make every effort to use a recommended method (tier level) for key categories in accordance with those IPCC guidelines.</p> <p>22. Each Party MAY use nationally appropriate methodologies if they better reflect its national circumstances and are consistent with the IPCC guidelines. In these cases, each Party SHALL transparently explain national methods, data and/or parameters selected.</p> <p>23. [...] MAY be unable to adopt a higher tier method for a particular key category owing to lack of resources. In such cases, the Party MAY use a tier 1 approach, and SHALL clearly document why the methodological choice was not in line with the corresponding decision tree of the IPCC guidelines. The Party SHOULD prioritize for future improvement any key categories for which the good practice method elaborated in the IPCC guidelines referred to in paragraph 20 above cannot be used.</p> <p>24. Each Party is ENCOURAGED to use country-specific and regional emission factors and activity data, where available, or to propose plans to develop them, in accordance with the good practice elaborated in the IPCC guidelines.</p> <p>2. Key category analysis</p> <p>25. [...] SHALL identify key categories for the starting year and the latest reporting year [...] including and [...] (LULUCF) categories, using approach 1, for both level and trend assessment, by implementing a key category analysis consistent with the IPCC guidelines; those [...] that need FLEXIBILITY [...] have the FLEXIBILITY to instead identify key categories using a threshold no lower than 85 per cent in place of the 95 per cent threshold</p>

COLOUR CODING

shall – red | should; may, encouraged; could; as appropriate; to the extent possible – light blue | flexibility - light green | table, tabular, textual, narrative, quantitative, qualitative – purple

Main element	National Communications (non-Annex I Parties) – provisions contained in decision 17/CP.8 and its annex	Biennial Update Reports (non-Annex I Parties) – provisions contained in decision 1/CP.17 and annex III	Biennial Transparency Reports (All Parties with flexibility to those developing country Parties that need it in the light of their capacities) – provisions contained in decision 18/CMA.1 and its annex
		<p>10. Additional or supporting information, including sector-specific information, MAY be supplied in a technical annex.</p>	<p>defined in the IPCC guidelines, allowing a focus on improving fewer categories and prioritizing resources.</p> <p>3. Time-series consistency and recalculations</p> <p>26. To ensure time-series consistency, each Party SHOULD use the same methods and a consistent approach to underlying activity data and emission factors for each reported year.</p> <p>27. [...] SHOULD use surrogate data, extrapolation, interpolation and other methods [...] ensure a consistent time series.</p> <p>28. [...] SHALL perform recalculations in accordance with the IPCC guidelines [...] ensuring that changes in emission trends are not introduced as a result of changes in methods or assumptions across the time series.</p> <p>4. Uncertainty assessment</p> <p>29. [...] SHALL QUANTITATIVELY estimate and QUALITATIVELY discuss the uncertainty [...] for all source and sink categories, including inventory totals, for at least the starting year and the latest reporting year of the inventory time [...]. Each Party SHALL also estimate the trend uncertainty of emission and removal estimates for all source and sink categories, including totals, between the starting year and the latest reporting year [...] using at least approach 1, [...] those [...] that need FLEXIBILITY [...] have the FLEXIBILITY to instead provide, at a minimum, a QUALITATIVE discussion of uncertainty for key categories, using the IPCC [...], where QUANTITATIVE input data are unavailable to QUANTITATIVELY estimate uncertainties, and are ENCOURAGED to provide a QUANTITATIVE estimate of uncertainty for all source and sink categories of the GHG inventory.</p> <p>5. Assessment of completeness</p>

COLOUR CODING

shall – red | should; may, encouraged; could; as appropriate; to the extent possible – light blue | flexibility - light green | table, tabular, textual, narrative, quantitative, qualitative – purple

Main element	National Communications (non-Annex I Parties) – provisions contained in decision 17/CP.8 and its annex	Biennial Update Reports (non-Annex I Parties) – provisions contained in decision 1/CP.17 and annex III	Biennial Transparency Reports (All Parties with flexibility to those developing country Parties that need it in the light of their capacities) – provisions contained in decision 18/CMA.1 and its annex
			<p>30. [...] SHOULD indicate the sources and sinks ...not considered in the national inventory report but for which estimation methods are included [...] and explain the reasons for such exclusion.</p> <p>31. [...] SHALL use notation keys where numerical data are not available when completing common reporting TABLES, indicating the reasons why emissions from sources and removals by sinks and associated data for specific sectors, categories and subcategories or gases are not reported. [...]</p> <p>32. Each Party MAY use the notation key “NE” (not estimated) when the estimates would be insignificant in terms of level according to the following considerations: emissions from a category SHOULD only be considered insignificant if the likely level of emissions is below 0.05 per cent of the national total GHG emissions, excluding LULUCF, or 500 kilotons of carbon dioxide equivalent (kt CO₂ eq), whichever is lower. The total national aggregate of estimated emissions for all gases from categories considered insignificant SHALL remain below 0.1 per cent of the national total GHG emissions, excluding LULUCF. Parties SHOULD use approximated activity data and default IPCC emission factors to derive a likely level of emissions for the respective category. Those [...] that need FLEXIBILITY [...] have the FLEXIBILITY to instead consider emissions insignificant if the likely level of emissions is below 0.1 per cent of the national total GHG emissions, excluding LULUCF, or 1,000 kt CO₂ eq, whichever is lower. The total national aggregate of estimated emissions for all gases from categories considered insignificant, in this case, SHALL remain below 0.2 per cent of the national total GHG emissions, excluding LULUCF.</p> <p>33. Once emissions or removals have been estimated for a category and if they continue to occur, each Party SHALL report them in subsequent submissions.</p>

COLOUR CODING

shall – red | should; may, encouraged; could; as appropriate; to the extent possible – light blue | flexibility - light green | table, tabular, textual, narrative, quantitative, qualitative – purple

Main element	National Communications (non-Annex I Parties) – provisions contained in decision 17/CP.8 and its annex	Biennial Update Reports (non-Annex I Parties) – provisions contained in decision 1/CP.17 and annex III	Biennial Transparency Reports (All Parties with flexibility to those developing country Parties that need it in the light of their capacities) – provisions contained in decision 18/CMA.1 and its annex
			<p>6. Quality assurance/quality control</p> <p>34. [...] SHALL elaborate an inventory QA/QC plan [...] including information on the inventory agency responsible for implementing QA/QC; those [...] need FLEXIBILITY [...] are instead ENCOURAGED to elaborate an inventory QA/QC plan [...], including information on the inventory agency responsible for implementing QA/QC.</p> <p>35. [...] SHALL implement and provide information on general inventory QC procedures [...] those [...] that need FLEXIBILITY [...] are instead ENCOURAGED to implement and provide information on general inventory QC procedures [...]. In addition, Parties SHOULD apply category-specific QC procedures [...] for key categories and for those individual categories in which significant methodological changes and/or data revisions have occurred. In addition, Parties SHOULD implement QA procedures by conducting a basic expert peer review of their inventories in accordance with the IPCC guidelines referred to in paragraph 20 above.</p> <p>36. [...] SHOULD compare the national estimates of CO₂ emissions from fuel combustion with those obtained using the reference approach[...].</p> <p>D. Metrics</p> <p>37. [...] SHALL use [...] (GWP) values from the IPCC Fifth Assessment Report, or 100-year time-horizon GWP values from a subsequent IPCC assessment report as agreed upon by the CMA [...] expressed in CO₂ eq. Each Party MAY in addition also use other metrics [...] to report supplemental information on aggregate emissions and removals of GHGs, expressed in CO₂ eq. In such cases, the Party SHALL provide in the national inventory document</p>

COLOUR CODING

shall – red | should; may, encouraged; could; as appropriate; to the extent possible – light blue | flexibility - light green | table, tabular, textual, narrative, quantitative, qualitative – purple

Main element	National Communications (non-Annex I Parties) – provisions contained in decision 17/CP.8 and its annex	Biennial Update Reports (non-Annex I Parties) – provisions contained in decision 1/CP.17 and annex III	Biennial Transparency Reports (All Parties with flexibility to those developing country Parties that need it in the light of their capacities) – provisions contained in decision 18/CMA.1 and its annex
	<p>B. Reporting</p> <p>13. [...] ENCOURAGED to describe procedures and arrangements [...] collect and archive data for the preparation of national GHG inventories, as well as efforts to make this a continuous process, [...]</p> <p>14. [...] SHALL, AS APPROPRIATE and TO THE EXTENT POSSIBLE, [...] a gas-by-gas basis and in units of mass, estimates [...] of[...] (CO₂), ... (CH₄) and [...] (N₂O) [...]</p> <p>15. [...] ENCOURAGED, AS APPROPRIATE, to provide information [...] (HFCs), [...] (PFCs) and [...] (SF₆).</p> <p>16. [...] ENCOURAGED, AS APPROPRIATE, [...] (CO), [...] (NO_x) and [...] (NMVOCs).</p> <p>17. Other gases[...] (SO_x), included in the IPCC Guidelines, MAY be included at the discretion of the Parties.</p> <p>18. [...] ENCOURAGED, TO THE EXTENT POSSIBLE, and if disaggregated data are available, to estimate and report CO₂ fuel combustion emissions using both the sectoral and the</p>		<p>information on the values of the metrics used and the IPCC assessment report they were sourced from.</p> <p>E. Reporting guidance</p> <p>38. [...] SHALL provide a national inventory report [...]. Each Party SHALL report the information referred [...] below, recognizing the associated flexibilities provided for those developing country Parties that need them in the light of their capacities.</p> <p>1. Information on methods and cross-cutting elements</p> <p>39. [...] SHALL report methods used, including the rationale for the choice of methods [...] and the descriptions, assumptions, references and sources of information used for the emission factors and activity data used to compile the GHG inventory.</p> <p>40. [...] SHALL provide information on the category and gas, and the methodologies, emission factors and activity data used at the most disaggregated level, TO THE EXTENT POSSIBLE, [...] including related data references for reported emission and removal estimates for any country-specific category and gas that is not included in the IPCC guidelines [...]</p> <p>41. [...] SHALL describe the key categories, including information on the approach used for their identification, and information on the level of disaggregation used, in accordance with paragraph 25 above.</p> <p>42. [...] SHALL report the individual and cumulative percentage contributions from key categories, for both level and trend, consistent with the IPCC guidelines [...]</p> <p>43. [...] SHALL report recalculations for the starting year [...] and all subsequent years of the inventory time series[...]</p> <p>44. [...] SHALL report the results of the uncertainty analysis as well as methods used, underlying assumptions, as applicable, and</p>

COLOUR CODING

shall – red | should; may, encouraged; could; as appropriate; to the extent possible – light blue | flexibility - light green | table, tabular, textual, narrative, quantitative, qualitative – purple

Main element	National Communications (non-Annex I Parties) – provisions contained in decision 17/CP.8 and its annex	Biennial Update Reports (non-Annex I Parties) – provisions contained in decision 1/CP.17 and annex III	Biennial Transparency Reports (All Parties with flexibility to those developing country Parties that need it in the light of their capacities) – provisions contained in decision 18/CMA.1 and its annex
	<p>reference approaches, and to explain any large differences between the two approaches.</p> <p>19. [...] SHOULD, TO THE EXTENT POSSIBLE, and if disaggregated data are available, to report emissions from international aviation and marine bunker fuels separately in their inventories. Emission estimates from these sources SHOULD not be included in the national totals.</p> <p>20. [...] aggregated GHG emissions and removals expressed in CO₂ equivalents SHOULD use [...] (GWP) provided by the IPCC in its Second Assessment Report [...]</p> <p>21. [...] ENCOURAGED to provide information on methodologies used in the estimation of anthropogenic emissions ...including a brief explanation of the sources of emission factors and activity data. If non-Annex I Parties estimate anthropogenic emissions and removals from country specific sources and/or sinks which are not part of the IPCC Guidelines, they SHOULD explicitly describe the source and/or sink categories, methodologies, emission factors and activity data used in their estimation of emissions, AS APPROPRIATE. Parties are</p>		<p>trends, at least for the starting year and the latest reporting year of the inventory time series [...]</p> <p>45. [...] SHALL report information on the reasons for lack of completeness, including information on any methodological or data gaps, [...]</p> <p>46. [...] SHALL report the QA/QC plan and information on QA/QC procedures already implemented or to be implemented ...</p> <p>2. Sectors and gases</p> <p>47. [...] SHALL report [...] for all categories, gases and carbon pools considered in the GHG inventory throughout the reported period on a gas-by-gas basis in units of mass at the most disaggregated level, in accordance with the IPCC [...], using the common reporting TABLES, including a descriptive summary and figures underlying emission trends, with emissions by sources listed separately from removals by sinks, except in cases where it MAY be technically impossible to separate information on emissions and removals in the LULUCF sector, and noting that a minimum level of aggregation is needed to protect confidential business and military information.</p> <p>48. [...] SHALL report seven gases ((CO₂), [...] (CH₄), [...] (N₂O), [...] (HFCs), [...] (PFCs), [...] (SF₆) and [...] (NF₃)); those [...] that need FLEXIBILITY [...] have the FLEXIBILITY to instead report at least three gases (CO₂, CH₄ and N₂O) as well as any of the additional four gases (HFCs, PFCs, SF₆ and NF₃) that are included in the Party's NDC [...] are covered by an activity under Article 6 [...] or have been previously reported.</p> <p>49. Each Party reporting HFCs, PFCs, SF₆ and NF₃ SHALL report actual emissions of the gases, providing disaggregated data by chemical (e.g. HFC-134a) and category in units of mass and in CO₂ eq.</p>

COLOUR CODING

shall – red | should; may, encouraged; could; as appropriate; to the extent possible – light blue | flexibility - light green | table, tabular, textual, narrative, quantitative, qualitative – purple

Main element	National Communications (non-Annex I Parties) – provisions contained in decision 17/CP.8 and its annex	Biennial Update Reports (non-Annex I Parties) – provisions contained in decision 1/CP.17 and annex III	Biennial Transparency Reports (All Parties with flexibility to those developing country Parties that need it in the light of their capacities) – provisions contained in decision 18/CMA.1 and its annex
	<p>ENCOURAGED to identify areas where data MAY be further improved in future communications through capacity-building.</p> <p>22. [...] ENCOURAGED to use TABLES 1 and 2 of these guidelines in reporting its national GHG inventory, taking into account the provisions established in paragraphs 14 to 17 above. In preparing those TABLES, Parties SHOULD strive to present information which is as complete as possible. Where numerical data are not provided, Parties SHOULD use the notation keys as indicated.</p> <p>23. [...] ENCOURAGED to include in their national communications the inventory sectoral TABLES and worksheets of the IPCC, in both electronic and hard copy format.</p> <p>24. [...] ENCOURAGED to provide information on the level of uncertainty associated with inventory data and their underlying assumptions, and to describe the methodologies used, if any, for estimating these uncertainties.</p>		<p>50. Each Party SHALL report the following sectors: energy, industrial processes and product use, agriculture, LULUCF and waste, according to the IPCC guidelines referred to in paragraph 20 above.</p> <p>51. [...] SHOULD provide information on the following precursor gases: carbon monoxide (CO), nitrogen oxides and non-methane volatile organic compounds (NMVOCs), as well as sulfur oxides.</p> <p>52. [...] MAY report indirect CO₂ from the atmospheric oxidation of CH₄, CO and NMVOCs. For Parties that decide to report indirect CO₂, the national totals SHALL be presented with and without indirect CO₂. Each Party SHOULD report indirect N₂O emissions from sources other than those in the agriculture and LULUCF sectors as a memo item. Those estimates of indirect N₂O SHALL not be included in national totals. Parties MAY provide information on other substances that have an impact on climate.</p> <p>53. [...] SHOULD report international aviation and marine bunker fuel emissions as two separate entries and SHOULD not include such emissions in national totals but report them distinctly, [...]</p> <p>54. [...] SHOULD clearly indicate how feedstocks and non-energy use of fuels have been accounted for in the inventory, [...]</p> <p>55. In the case of a Party addressing the emissions and subsequent removals from natural disturbances on managed lands in its national GHG inventory, that Party SHALL report information on the approach taken, and how it is consistent with IPCC guidance, AS APPROPRIATE, and SHALL indicate if the estimates are indicated in national totals.</p> <p>56. In the case of a Party using an approach to reporting emissions and removals from harvested wood products in accordance with IPCC guidance other than the production</p>

COLOUR CODING

shall – red | should; may, encouraged; could; as appropriate; to the extent possible – light blue | flexibility - light green | table, tabular, textual, narrative, quantitative, qualitative – purple

Main element	National Communications (non-Annex I Parties) – provisions contained in decision 17/CP.8 and its annex	Biennial Update Reports (non-Annex I Parties) – provisions contained in decision 1/CP.17 and annex III	Biennial Transparency Reports (All Parties with flexibility to those developing country Parties that need it in the light of their capacities) – provisions contained in decision 18/CMA.1 and its annex
			<p>approach, that Party SHALL also provide supplementary information on emissions and removals from harvested wood products estimated using the production approach.</p> <p>3. Time series</p> <p>57. Each Party SHALL report a consistent annual time series starting from 1990; those [...] that need FLEXIBILITY [...] have the FLEXIBILITY to instead report data covering, at a minimum, the reference year/period for its NDC under Article 4 of the Paris Agreement and, in addition, a consistent annual time series from at least 2020 onwards.</p> <p>58. For each Party, the latest reporting year SHALL be no more than two years prior to the submission of its national inventory report; those [...] that need FLEXIBILITY [...] have the FLEXIBILITY to instead have their latest reporting year as three years prior to the submission of their national inventory report.</p>
Actions	<p>IV. General description of steps taken or envisaged to implement the convention</p> <p>A. Programmes containing measures to facilitate adequate adaptation to climate change</p> <p>28. [...] SHALL [...] provide to the COP information on the general descriptions of steps taken or envisaged towards formulating, implementing, publishing and regularly updating national and, where appropriate, regional programmes containing</p>	<p>IV. Mitigation actions</p> <p>11. [...] SHOULD provide information, in a TABULAR format, on actions to mitigate climate change...</p> <p>12. For each mitigation action or groups of mitigation actions including, AS APPROPRIATE, those listed in document FCCC/AWGLCA/2011/INF.1, developing country Parties SHALL provide the following information TO THE EXTENT POSSIBLE:</p> <p>(a) Name and description of the mitigation action,</p>	<p>Information necessary to track progress made in implementing and achieving nationally determined contributions under Article 4 of the Paris Agreement</p> <p>A. National circumstances and institutional arrangements</p> <p>59. [...] SHALL describe its national circumstances relevant to progress made in implementing and achieving its NDC [...] including:</p> <ul style="list-style-type: none"> (a) Government structure; (b) Population profile; (c) Geographical profile; (d) Economic profile; (e) Climate profile; (f) Sector details.

COLOUR CODING

shall – red | should; may, encouraged; could; as appropriate; to the extent possible – light blue | flexibility - light green | table, tabular, textual, narrative, quantitative, qualitative – purple

Main element	National Communications (non-Annex I Parties) – provisions contained in decision 17/CP.8 and its annex	Biennial Update Reports (non-Annex I Parties) – provisions contained in decision 1/CP.17 and annex III	Biennial Transparency Reports (All Parties with flexibility to those developing country Parties that need it in the light of their capacities) – provisions contained in decision 18/CMA.1 and its annex
	<p>measures to facilitate adequate adaptation to climate change, and any other information they consider to be relevant [...]</p> <p>29. [...] SHOULD provide information on their vulnerability to the adverse effects of climate change, and on adaptation measures being taken ...</p> <p>1. Methodological approaches</p> <p>30. [...] MAY use appropriate methodologies and guidelines² they consider better able to reflect their national situation for assessing their vulnerability and adaptation [...] consistent, transparent and well documented.</p> <p>31. [...] ENCOURAGED to use, for the evaluation of adaptation strategies and measures,³ appropriate methodologies they consider better able to reflect their national situation, provided that these methodologies are consistent, transparent and well documented.</p> <p>² Such as the <i>IPCC Technical Guidelines for Assessing Climate Change Impacts and Adaptations</i> (Carter, T.R., M.L. Parry, H. Harasawa, S. Nishioka, 1994), the <i>UNEP Handbook on Methods for</i></p>	<p>including information on the nature of the action, coverage (i.e. sectors and gases), QUANTITATIVE goals and progress indicators;</p> <p>(b) Information on methodologies and assumptions;</p> <p>(c) Objectives of the action and steps taken or envisaged to achieve that action;</p> <p>(d) Information on the progress of implementation of the mitigation actions and the underlying steps taken or envisaged, and the results achieved, such as estimated outcomes (metrics depending on type of action) and estimated emission reductions, TO THE EXTENT POSSIBLE;</p> <p>(e) Information on international market mechanisms.</p> <p>13. [...] SHOULD provide information on the description of</p>	<p>60. [...] SHALL provide information on how its national circumstances affect GHG emissions and removals over time.</p> <p>61. [...] SHALL provide information on the institutional arrangements in place to track progress made in implementing and achieving its NDC under Article 4, including those used for tracking internationally transferred mitigation outcomes, if applicable, along with any changes in institutional arrangements since its most recent biennial transparency report</p> <p>62. [...] SHALL provide information on legal, institutional, administrative and procedural arrangements for domestic implementation, monitoring, reporting, archiving of information and stakeholder engagement related to the implementation and achievement of its NDC under Article 4.</p> <p>63. In reporting the information referred to in paragraphs 59–62 above, a Party MAY reference previously reported information.</p> <p>B. Description of a Party’s nationally determined contribution under Article 4 of the Paris Agreement, including updates</p> <p>64. Each Party SHALL provide a description of its NDC under Article 4, against which progress will be tracked. The information provided SHALL include the following, as applicable, including any updates to information previously provided [...]</p> <p>C. Information necessary to track progress made in implementing and achieving its nationally determined contribution under Article 4 of the Paris Agreement</p> <p>65. [...] SHALL identify the indicator(s) that it has selected to track progress towards the implementation and achievement of its NDC under Article 4. Indicators SHALL be relevant to a Party’s NDC under Article 4 and MAY be either QUALITATIVE or QUANTITATIVE.</p>

COLOUR CODING

shall – red | should; may, encouraged; could; as appropriate; to the extent possible – light blue | flexibility - light green | table, tabular, textual, narrative, quantitative, qualitative – purple

Main element	National Communications (non-Annex I Parties) – provisions contained in decision 17/CP.8 and its annex	Biennial Update Reports (non-Annex I Parties) – provisions contained in decision 1/CP.17 and annex III	Biennial Transparency Reports (All Parties with flexibility to those developing country Parties that need it in the light of their capacities) – provisions contained in decision 18/CMA.1 and its annex
	<p><i>Climate Change Impact Assessment and Adaptation Strategies</i> (Feenstra, J.F., I. Burton, J.B. Smith, R.S.J. Tol, 1998), and the <i>International Handbook on Vulnerability and Adaptation Assessments</i> (Benioff, R., S. Guill, J. Lee, 1996).</p> <p>³ Such as those contained in the <i>Compendium of Decision Tools to Evaluate Strategies for Adaptation to Climate Change</i> which is available from the UNFCCC web site, www.unfccc.int/issues/meth_tools.htm</p> <p>↓</p> <p>2. Reporting</p> <p>32. [...] ENCOURAGED to provide information on the scope of their vulnerability and adaptation assessment, including identification of vulnerable areas that are most critical.</p> <p>33. [...] ENCOURAGED to include a description of approaches, methodologies and tools used, including scenarios for the assessment of impacts of, and vulnerability and adaptation to, climate change, as well as any uncertainties inherent in these methodologies.</p>	<p>domestic measurement, reporting and verification arrangements.</p>	<p>66. These indicators COULD include, AS APPROPRIATE, for example: net GHG emissions and removals, percentage reduction of GHG intensity, relevant QUALITATIVE indicators for a specific policy or measure, mitigation co-benefits of adaptation actions and/or economic diversification plans or other (e.g. hectares of reforestation, percentage of renewable energy use or production, carbon neutrality, share of non-fossil fuel in primary energy consumption and non-GHG related indicators).</p> <p>67. [...] SHALL provide the information for each selected indicator for the reference point(s), level(s), baseline(s), base year(s) or starting point(s), and SHALL update the information in accordance with any recalculation of the GHG inventory, AS APPROPRIATE.</p> <p>68. [...] SHALL provide the most recent information for each selected indicator identified in paragraph 65 above for each reporting year during the implementation period of its NDC under Article 4.</p> <p>69. [...] SHALL compare the most recent information for each selected indicator with the information provided pursuant to paragraph 67 above to track progress made in implementing its NDC under Article 4.</p> <p>70. For the first biennial transparency report that contains information on the end year or end of the period of its NDC under Article 4, each Party SHALL provide an assessment of whether it has achieved the target(s) for its NDC under Article 4 based on the relevant information described in paragraphs 59–69 above and paragraph 78 below, as applicable, and the most recent information for each selected indicator relevant to tracking progress towards the implementation and achievement of its NDC under Article 4.</p> <p>71. For the first NDC under Article 4, each Party SHALL clearly indicate and report its accounting approach, including how it is</p>

COLOUR CODING

shall – red | should; may, encouraged; could; as appropriate; to the extent possible – light blue | flexibility - light green | table, tabular, textual, narrative, quantitative, qualitative – purple

Main element	National Communications (non-Annex I Parties) – provisions contained in decision 17/CP.8 and its annex	Biennial Update Reports (non-Annex I Parties) – provisions contained in decision 1/CP.17 and annex III	Biennial Transparency Reports (All Parties with flexibility to those developing country Parties that need it in the light of their capacities) – provisions contained in decision 18/CMA.1 and its annex
	<p>34. [...] ENCOURAGED to provide information on their vulnerability to the impacts of, and their adaptation to, climate change in key vulnerable areas. Information SHOULD include key findings, and direct and indirect effects arising from climate change, allowing for an integrated analysis of the country's vulnerability to climate change.</p> <p>35. [...] ENCOURAGED to provide information on and, TO THE EXTENT POSSIBLE, an evaluation of, strategies and measures for adapting to climate change, in key areas, including those which are of the highest priority.</p> <p>36. Where relevant, Parties MAY report on the use of policy frameworks, such as national adaptation programmes,⁴ plans and policies for developing and implementing adaptation strategies and measures.</p> <p>⁴ For example, national adaptation programmes of action (NAPAs) for least developed countries.</p> <p>B. Programmes containing measures to mitigate climate change</p> <p>37. [...] SHALL[...] on the general descriptions of steps taken or envisaged for formulating, implementing, publishing and regularly updating</p>		<p>consistent with Article 4, paragraphs 13 and 14, of the Paris Agreement. Each Party MAY choose to provide information on accounting of its first NDC consistent with decision 4/CMA.1.</p> <p>72. For the second and subsequent NDC under Article 4, each Party SHALL provide information referred to in chapter III.B and C above consistent with decision 4/CMA.1. Each Party SHALL clearly indicate how its reporting is consistent with decision 4/CMA.1.</p> <p>73. [...] SHALL provide any definitions needed to understand its NDC under Article 4, including those related to each indicator identified in paragraph 65 above, those related to any sectors or categories defined differently than in the national inventory report, or the mitigation co-benefits of adaptation actions and/or economic diversification plans.</p> <p>74. [...] SHALL provide a description of each methodology and/or accounting approach used, as applicable for:</p> <ul style="list-style-type: none"> (a) Target(s), as described in paragraph 64 above; (b) The construction of baselines, as described in paragraph 64 above, TO THE EXTENT POSSIBLE; (c) Each indicator identified in paragraph 65 above. <p>75. The information referred to in paragraph 74 above SHALL include, as applicable and available to the Party's NDC under Article 4: [...]</p> <p>76. Each Party SHALL also: [...]</p> <p>77. Each Party SHALL provide the information referred to in paragraphs 65–76 above in a structured summary to track progress made in implementing and achieving its NDC under Article 4, including: [...].</p> <p>78. Each Party with an NDC under Article 4 that consists of adaptation actions and/or economic diversification plans resulting in mitigation co-benefits consistent with Article 4, paragraph 7, of the Paris Agreement SHALL provide the information necessary to track</p>

COLOUR CODING

shall – red | should; may, encouraged; could; as appropriate; to the extent possible – light blue | flexibility - light green | table, tabular, textual, narrative, quantitative, qualitative – purple

Main element	National Communications (non-Annex I Parties) – provisions contained in decision 17/CP.8 and its annex	Biennial Update Reports (non-Annex I Parties) – provisions contained in decision 1/CP.17 and annex III	Biennial Transparency Reports (All Parties with flexibility to those developing country Parties that need it in the light of their capacities) – provisions contained in decision 18/CMA.1 and its annex
	<p>national and, where appropriate, regional programmes containing measures to mitigate climate [...] and any other information they consider to be relevant [...]</p> <p>1. Methodological approaches</p> <p>38. [...] ENCOURAGED to use whatever methods are available and appropriate in order to formulate and prioritize programmes containing measures to mitigate climate change; this SHOULD be done within the framework of sustainable development objectives, which SHOULD include social, economic and environmental factors.</p> <p>39. In their assessment of these programmes on various sectors of the economy, [...] MAY use the appropriate technical resources.⁵</p> <p>2. Reporting</p> <p>40. [...] ENCOURAGED to provide, to the extent their capacities allow, information on programmes and measures implemented or planned⁶ which contribute to mitigating climate change [...] including, AS APPROPRIATE, relevant information by key sectors on methodologies, scenarios, results,</p>		<p>progress on the implementation and achievement of the domestic policies and measures implemented to address the social and economic consequences of response measures, including [...]</p> <p>79. [...] SHALL report the information referred to in paragraphs 65–78 above in a NARRATIVE and common TABULAR format, as applicable. Such common TABULAR formats SHOULD accommodate all types of NDC under Article 4, AS APPROPRIATE.</p> <p>D. Mitigation policies and measures, actions and plans, including those with mitigation co-benefits resulting from adaptation actions and economic diversification plans, related to implementing and achieving a nationally determined contribution under Article 4 of the Paris Agreement</p> <p>80. Each Party SHALL provide information on actions, policies and measures that support the implementation and achievement of its NDC under Article 4 of the Paris Agreement, focusing on those that have the most significant impact on GHG emissions or removals and those impacting key categories in the national GHG inventory. This information SHALL be presented in NARRATIVE and TABULAR format.</p> <p>81. TO THE EXTENT POSSIBLE, Parties SHALL organize the reporting of actions by sector (energy, transport, industrial processes and product use, agriculture, LULUCF, waste management and other).</p> <p>82. Each Party SHALL provide the following information on its actions, policies and measures, TO THE EXTENT POSSIBLE, in a TABULAR format: [...]</p> <p>83. Each Party MAY also provide the following information for each action, policy and measure reported:</p> <ul style="list-style-type: none"> (a) Costs; (b) Non-GHG mitigation benefits;

COLOUR CODING

shall – red | should; may, encouraged; could; as appropriate; to the extent possible – light blue | flexibility - light green | table, tabular, textual, narrative, quantitative, qualitative – purple

Main element	National Communications (non-Annex I Parties) – provisions contained in decision 17/CP.8 and its annex	Biennial Update Reports (non-Annex I Parties) – provisions contained in decision 1/CP.17 and annex III	Biennial Transparency Reports (All Parties with flexibility to those developing country Parties that need it in the light of their capacities) – provisions contained in decision 18/CMA.1 and its annex
	<p>measures and institutional arrangements.</p> <p>⁵ <i>Such as Technologies, Policies and Measures for Mitigating Climate Change (IPCC Technical Paper I); Greenhouse Gas Mitigation Assessment: A Guidebook by the U.S. Country Studies Program; Climate Change 2001: Mitigation (Contribution of Working Group III to the Third Assessment Report of the IPCC)</i></p> <p>⁶ <i>Such as measures being considered by the government for future implementation.</i></p>		<p>(c) How the mitigation actions as identified in paragraph 80 above interact with each other, AS APPROPRIATE.</p> <p>84. For each Party with an NDC [...] includes relevant information on policies and measures contributing to mitigation co-benefits resulting from adaptation actions or economic diversification plans.</p> <p>85. [...] SHALL provide, TO THE EXTENT POSSIBLE, estimates of expected and achieved GHG emission reductions for its actions, policies and measures in the TABULAR format referred to in paragraph 82 above; those developing country Parties that need FLEXIBILITY in the light of their capacities with respect to this provision are instead ENCOURAGED to report this information.</p> <p>86. [...] SHALL describe the methodologies and assumptions used to estimate the GHG emission reductions or removals due to each action, policy and measure, to the extent available. This information MAY be presented in an annex to its biennial transparency report.</p> <p>87. Each Party SHOULD identify those actions, policies and measures that are no longer in place compared with the most recent biennial transparency report, and explain why they are no longer in place.</p> <p>88. Each Party SHOULD identify its actions, policies and measures that influence GHG emissions from international transport.</p> <p>89. Each Party SHOULD, TO THE EXTENT POSSIBLE, provide information about how its actions, policies and measures are modifying longer-term trends in GHG emissions and removals.</p> <p>90. Each Party is ENCOURAGED to provide detailed information, TO THE EXTENT POSSIBLE, on the assessment of economic and social impacts of response measures.</p>

COLOUR CODING

shall – red | should; may, encouraged; could; as appropriate; to the extent possible – light blue | flexibility - light green | table, tabular, textual, narrative, quantitative, qualitative – purple

Main element	National Communications (non-Annex I Parties) – provisions contained in decision 17/CP.8 and its annex	Biennial Update Reports (non-Annex I Parties) – provisions contained in decision 1/CP.17 and annex III	Biennial Transparency Reports (All Parties with flexibility to those developing country Parties that need it in the light of their capacities) – provisions contained in decision 18/CMA.1 and its annex
			<p>E. Summary of greenhouse gas emissions and removals</p> <p>91. Each Party that submits a stand-alone national inventory report SHALL provide a summary of its GHG emissions and removals. This information SHALL be provided for those reporting years corresponding to the Party’s most recent national inventory report, in a TABULAR format.</p> <p>F. Projections of greenhouse gas emissions and removals, as applicable</p> <p>92. Each Party SHALL report projections pursuant to paragraphs 93–101 below; those developing country Parties that need FLEXIBILITY in the light of their capacities are instead ENCOURAGED to report these projections.</p> <p>93. Projections are indicative of the impact of mitigation policies and measures on future trends in GHG emissions and removals, and SHALL not be used to assess progress towards the implementation and achievement of a Party’s NDC under Article 4 of the Paris Agreement unless the Party has identified a reported projection as its baseline as identified in chapter III.B above.</p> <p>94. Each Party that reports pursuant to paragraph 92 above SHALL report a ‘with measures’ projection of all GHG emissions and removals and MAY report a ‘with additional measures’ projection and a ‘without measures’ projection.</p> <p><i>Footnote: A ‘with measures’ scenario encompasses currently implemented and adopted policies and measures. If provided, a ‘with additional measures’ scenario encompasses implemented, adopted and planned policies and measures. If provided, a ‘without measures’ projection excludes all policies and measures implemented, adopted and planned after the year chosen as the starting points for the projection.</i></p>

COLOUR CODING

shall – **red** | should; may, encouraged; could; as appropriate; to the extent possible – **light blue** | flexibility - **light green** | table, tabular, textual, narrative, quantitative, qualitative – **purple**

Main element	National Communications (non-Annex I Parties) – provisions contained in decision 17/CP.8 and its annex	Biennial Update Reports (non-Annex I Parties) – provisions contained in decision 1/CP.17 and annex III	Biennial Transparency Reports (All Parties with flexibility to those developing country Parties that need it in the light of their capacities) – provisions contained in decision 18/CMA.1 and its annex
			<p>95. Projections SHALL begin from the most recent year in the Party’s national inventory report and extend at least 15 years beyond the next year ending in zero or five; those developing country Parties that need FLEXIBILITY in the light of their capacities with respect to this provision have the FLEXIBILITY to instead extend their projections at least to the end point of their NDC under Article 4 of the Paris Agreement.</p> <p>96. [...] SHOULD provide information in describing the methodology used to develop the projections. This information SHOULD include: [...]</p> <p>97. Each Party SHALL also provide projections of key indicators to determine progress towards its NDC under Article 4 of the Paris Agreement.</p> <p>98. Each Party SHALL include projections on a sectoral basis and by gas, as well as for the national total, using a common metric consistent with that in its national inventory report.</p> <p>99. Projections SHALL be presented relative to actual inventory data for the preceding years.</p> <p>100. Emission projections SHALL be provided with and without LULUCF.</p> <p>101. Projections SHALL be presented in graphical and TABULAR formats.</p> <p>102. Those developing country Parties that need FLEXIBILITY in the light of their capacities with respect to paragraphs 93–101 above can instead report using a less detailed methodology or coverage.</p> <p>G. Other information</p> <p>103. Each Party MAY provide any other information relevant to tracking progress made in implementing and achieving its NDC under Article 4 of the Paris Agreement.</p>

COLOUR CODING

shall – **red** | should; may, encouraged; could; as appropriate; to the extent possible – **light blue** | flexibility - **light green** | table, tabular, textual, narrative, quantitative, qualitative – **purple**

Main element	National Communications (non-Annex I Parties) – provisions contained in decision 17/CP.8 and its annex	Biennial Update Reports (non-Annex I Parties) – provisions contained in decision 1/CP.17 and annex III	Biennial Transparency Reports (All Parties with flexibility to those developing country Parties that need it in the light of their capacities) – provisions contained in decision 18/CMA.1 and its annex
			<p>Information related to climate change impacts and adaptation under Article 7 of the Paris Agreement</p> <p>104. [...] SHOULD provide information related to climate change impacts and adaptation under Article 7 of the Paris Agreement, AS APPROPRIATE. Providing such information is not mandatory.</p> <p>105. The information referred to below COULD facilitate, inter alia, recognition of the adaptation efforts of developing country Parties.</p> <p>A. National circumstances, institutional arrangements and legal frameworks</p> <p>106. Each Party SHOULD provide the following information, AS APPROPRIATE: [...]</p> <p>B. Impacts, risks and vulnerabilities, AS APPROPRIATE</p> <p>107. Each Party SHOULD provide the following information, AS APPROPRIATE: [...]</p> <p>C. Adaptation priorities and barriers</p> <p>108. Each Party SHOULD provide the following information, AS APPROPRIATE: [...]</p> <p>D. Adaptation strategies, policies, plans, goals and actions to integrate adaptation into national policies and strategies</p> <p>109. Each Party SHOULD provide the following information, AS APPROPRIATE: [...]</p> <p>E. Progress on implementation of adaptation</p> <p>110. Each Party SHOULD provide the following information, AS APPROPRIATE, on progress on: [...]</p> <p>111. Developing country Parties MAY also include information on, AS APPROPRIATE, implementation of supported adaptation</p>

COLOUR CODING

shall – red | should; may, encouraged; could; as appropriate; to the extent possible – light blue | flexibility - light green | table, tabular, textual, narrative, quantitative, qualitative – purple

Main element	National Communications (non-Annex I Parties) – provisions contained in decision 17/CP.8 and its annex	Biennial Update Reports (non-Annex I Parties) – provisions contained in decision 1/CP.17 and annex III	Biennial Transparency Reports (All Parties with flexibility to those developing country Parties that need it in the light of their capacities) – provisions contained in decision 18/CMA.1 and its annex
			<p>actions, and the effectiveness of already implemented adaptation measures.</p> <p>F. Monitoring and evaluation of adaptation actions and processes</p> <p>112. In order to enhance their adaptation actions and to facilitate reporting, AS APPROPRIATE, each Party SHOULD report on the establishment or use of domestic systems to monitor and evaluate the implementation of adaptation actions. Parties SHOULD report on approaches and systems for monitoring and evaluation, including those in place or under development.</p> <p>113. Each Party SHOULD provide the following information, AS APPROPRIATE, related to monitoring and evaluation: [...]</p> <p>114. Each Party SHOULD provide information related to the effectiveness and sustainability of adaptation actions, AS APPROPRIATE, including on: [...]</p> <p>G. Information related to averting, minimizing and addressing loss and damage associated with climate change impacts</p> <p>115. Each interested Party MAY provide, AS APPROPRIATE, information related to enhancing understanding, action and support, on a cooperative and facilitative basis, to avert, minimize and address loss and damage associated with climate change impacts, taking into account projected changes in climate-related risks, vulnerabilities, adaptive capacities and exposure, including, AS APPROPRIATE, on: [...]</p> <p>H. Cooperation, good practices, experience and lessons learned</p> <p>116. Each Party SHOULD provide the following information, AS APPROPRIATE, related to cooperation, good practices, experience and lessons learned: [...]</p> <p>I. Any other information related to climate change impacts and adaptation under Article 7 of the Paris Agreement</p>

COLOUR CODING

shall – red | should; may, encouraged; could; as appropriate; to the extent possible – light blue | flexibility - light green | table, tabular, textual, narrative, quantitative, qualitative – purple

Main element	National Communications (non-Annex I Parties) – provisions contained in decision 17/CP.8 and its annex	Biennial Update Reports (non-Annex I Parties) – provisions contained in decision 1/CP.17 and annex III	Biennial Transparency Reports (All Parties with flexibility to those developing country Parties that need it in the light of their capacities) – provisions contained in decision 18/CMA.1 and its annex
			117. Each Party MAY provide, AS APPROPRIATE , any other information related to climate change impacts and adaptation under Article 7.
Support provided and mobilized	-	-	<p>Information on financial, technology development and transfer and capacity-building support provided and mobilized under Articles 9–11 of the Paris Agreement</p> <p>118. Developed country Parties SHALL provide information [...]. Other Parties that provide support SHOULD provide such information and, in doing so, are ENCOURAGED to use the MPGs contained in this chapter.</p> <p>A. National circumstances and institutional arrangements</p> <p>119. Information on national circumstances and institutional arrangements relevant to reporting on the provision and mobilization of support, including: [...]</p> <p>120. Information, if available, on national circumstances and institutional arrangements for the provision of technology development and transfer and capacity-building support.</p> <p>B. Underlying assumptions, definitions and methodologies</p> <p>121. In order to enhance the transparency of reporting, a description of the underlying assumptions, methodologies and definitions, as applicable, used to identify and/or report, including: [...]</p> <p>(o) (ii) Providing information on the point of measurement (e.g. point of commitment, point of disbursement) of the private finance mobilized as a result of the public intervention, TO THE EXTENT</p>

COLOUR CODING

shall – red | should; may, encouraged; could; as appropriate; to the extent possible – light blue | flexibility - light green | table, tabular, textual, narrative, quantitative, qualitative – purple

Main element	National Communications (non-Annex I Parties) – provisions contained in decision 17/CP.8 and its annex	Biennial Update Reports (non-Annex I Parties) – provisions contained in decision 1/CP.17 and annex III	Biennial Transparency Reports (All Parties with flexibility to those developing country Parties that need it in the light of their capacities) – provisions contained in decision 18/CMA.1 and its annex
			<p>POSSIBLE in relation to the type of instrument or mechanism used for the mobilization; [...].</p> <p>122. A description of the underlying assumptions, definitions and methodologies used to provide information on technology development and transfer and capacity-building support.</p> <p>C. Information on financial support provided and mobilized under Article 9 of the Paris Agreement</p> <p>1. Bilateral, regional and other channels</p> <p>123. Relevant information, in a TABULAR format, for the previous two reporting years without overlapping with the previous reporting periods, on bilateral and regional financial support provided, specifying: [...]</p> <ul style="list-style-type: none"> • Recipient, including, TO THE EXTENT POSSIBLE, information on the recipient region or country and the title of the project, programme, activity or other (specify); [...]. • Additional information, as available (such as project/programme details, implementing agency and, TO THE EXTENT POSSIBLE, link to relevant project/programme documentation); [...]. <p>2. Multilateral channels</p> <p>124. Relevant information, in a TABULAR format, for the previous two reporting years without overlapping with the previous reporting periods, on financial support provided through multilateral channels, specifying:</p> <p>3. Information on finance mobilized through public interventions</p>

COLOUR CODING

shall – red | should; may, encouraged; could; as appropriate; to the extent possible – light blue | flexibility - light green | table, tabular, textual, narrative, quantitative, qualitative – purple

Main element	National Communications (non-Annex I Parties) – provisions contained in decision 17/CP.8 and its annex	Biennial Update Reports (non-Annex I Parties) – provisions contained in decision 1/CP.17 and annex III	Biennial Transparency Reports (All Parties with flexibility to those developing country Parties that need it in the light of their capacities) – provisions contained in decision 18/CMA.1 and its annex
			<p>125. Relevant information, in TEXTUAL and/or TABULAR format, for the previous two reporting years without overlapping with the previous reporting periods, on financial support mobilized through public interventions through bilateral, regional and multilateral channels, including the operating entities of the Financial Mechanism and entities of the Technology Mechanism, as applicable and TO THE EXTENT POSSIBLE: [...].</p> <p>D. Information on support for technology development and transfer provided under Article 10 of the Paris Agreement</p> <p>126. Information, in TEXTUAL format, on support for technology development and transfer provided under Article 10 of the Paris Agreement, including, TO THE EXTENT POSSIBLE, QUALITATIVE and/or QUANTITATIVE information on: [...]</p> <ul style="list-style-type: none"> • Efforts to ENCOURAGED private sector activities related to technology development and transfer and how such efforts support developing country Parties; • Efforts to accelerate, ENCOURAGED and enable innovation, including research, development and deployment efforts, and collaborative approaches to research and development; • Knowledge generated. <p>127. [...] QUANTITATIVE and/or QUALITATIVE information in a common TABULAR format on measures or activities related to support for technology development and transfer implemented or planned since their previous report, including, TO THE EXTENT POSSIBLE and as relevant: [...]</p> <p>E. Information on capacity-building support provided under Article 11 of the Paris Agreement</p>

COLOUR CODING

shall – red | should; may, encouraged; could; as appropriate; to the extent possible – light blue | flexibility - light green | table, tabular, textual, narrative, quantitative, qualitative – purple

Main element	National Communications (non-Annex I Parties) – provisions contained in decision 17/CP.8 and its annex	Biennial Update Reports (non-Annex I Parties) – provisions contained in decision 1/CP.17 and annex III	Biennial Transparency Reports (All Parties with flexibility to those developing country Parties that need it in the light of their capacities) – provisions contained in decision 18/CMA.1 and its annex
			<p>128. Information, in TEXTUAL format, on capacity-building support provided under Article 11 of the Paris Agreement, including, TO THE EXTENT POSSIBLE, QUALITATIVE and/or QUANTITATIVE information on: [...]</p> <p>129. QUANTITATIVE and/or QUALITATIVE information in a common TABULAR format on measures or activities related to capacity-building support implemented or planned since their previous report, including, TO THE EXTENT POSSIBLE and as relevant: [...]</p>
Supported needed and received	<p>VI. Constraints and gaps, and related financial, technical and capacity needs</p> <p>49. [...] SHOULD, in accordance with national circumstances and development priorities, describe any constraints and gaps, and related financial, technical and capacity needs, as well as proposed and/or implemented activities for overcoming the gaps and constraints, associated with the implementation of activities, measures and programmes envisaged under the Convention, and with the preparation and improvement of national communications on a continuous basis.</p> <p>50. [...] SHOULD provide information on financial resources and technical support for the preparation of their national communications provided by themselves, as well as those</p>	<p>V. Finance, technology and capacity-building needs and support received</p> <p>14. [...] SHOULD provide updated information on constraints and gaps, and related financial, technical and capacity-building needs.</p> <p>15. [...] SHOULD also provide updated information on financial resources, technology transfer, capacity-building and technical support received [...]</p> <p>16. With regard to the development and transfer of technology, [...] SHOULD provide information on technology needs, which must be nationally determined, and on technology support received.</p>	<p>Information on financial, technology development and transfer and capacity-building support needed and received under Articles 9–11 of the Paris Agreement</p> <p>A. National circumstances, institutional arrangements and country-driven strategies</p> <p>130. Developing country Parties SHOULD provide information on national circumstances and institutional arrangements relevant to reporting on support needed and received, including: [...]</p> <p>B. Underlying assumptions, definitions and methodologies</p> <p>131. In reporting information on support needed and received, developing country Parties SHOULD describe the underlying assumptions, definitions and methodologies used to provide information on support needed and received, including, as applicable, those used to: [...]</p> <p>C. Information on financial support needed by developing country Parties under Article 9 of the Paris Agreement</p>

COLOUR CODING

shall – **red** | should; may, encouraged; could; as appropriate; to the extent possible – **light blue** | flexibility - **light green** | table, tabular, textual, narrative, quantitative, qualitative – **purple**

Main element	National Communications (non-Annex I Parties) – provisions contained in decision 17/CP.8 and its annex	Biennial Update Reports (non-Annex I Parties) – provisions contained in decision 1/CP.17 and annex III	Biennial Transparency Reports (All Parties with flexibility to those developing country Parties that need it in the light of their capacities) – provisions contained in decision 18/CMA.1 and its annex
	<p>received from [...] (GEF), Annex II Parties or bilateral and multilateral institutions.</p> <p>51. [...] SHOULD also provide information on financial resources and technical support provided by themselves and by the GEF, Annex II Parties or bilateral and multilateral institutions, for activities relating to climate change.</p> <p>52. [...] ENCOURAGED to provide, to the extent their capacities permit, a list of projects proposed for financing[...]</p> <p>53. [...] MAY include information on opportunities for the implementation of adaptation measures, including pilot and/or demonstration adaptation projects, being undertaken or proposed. They MAY also provide information on barriers to the implementation of adaptation measures. They MAY include, AS APPROPRIATE, information on how support programmes from Parties included in Annex II to the Convention[...]</p> <p>54. With regard to the development and transfer of technology, [...] ENCOURAGED to provide information on country-specific</p>		<p>132. Developing country Parties SHOULD provide information on financial support needed under Article 9 of the Paris Agreement in TEXTUAL format, including, TO THE EXTENT POSSIBLE and as available and as applicable: [...]</p> <p>133. Developing country Parties SHOULD provide, in a common TABULAR format, information on financial support needed, including the following, TO THE EXTENT POSSIBLE, and as available and as applicable: [...].</p> <p style="text-align: center;">D. Information on financial support received by developing country Parties under Article 9 of the Paris Agreement</p> <p>134. Developing country Parties SHOULD provide, in a common TABULAR format, information on financial support received, including, TO THE EXTENT POSSIBLE, and as available and as applicable: [...].</p> <p style="text-align: center;">E. Information on technology development and transfer support needed by developing country Parties under Article 10 of the Paris Agreement</p> <p>135. Developing country Parties SHOULD provide, in TEXTUAL format, information on technology development and transfer support needed under Article 10 of the Paris Agreement, including on, TO THE EXTENT POSSIBLE, and as available and as applicable: [...]</p> <p>136. Developing country Parties SHOULD provide, in a common TABULAR format, information on technology development and transfer support needed, including, TO THE EXTENT POSSIBLE and as available and as applicable: [...]</p>

COLOUR CODING

shall – **red** | should; may, encouraged; could; as appropriate; to the extent possible – **light blue** | flexibility - **light green** | table, tabular, textual, narrative, quantitative, qualitative – **purple**

Main element	National Communications (non-Annex I Parties) – provisions contained in decision 17/CP.8 and its annex	Biennial Update Reports (non-Annex I Parties) – provisions contained in decision 1/CP.17 and annex III	Biennial Transparency Reports (All Parties with flexibility to those developing country Parties that need it in the light of their capacities) – provisions contained in decision 18/CMA.1 and its annex
	<p>technology needs and assistance received from developed country Parties and the financial mechanism of the Convention and, AS APPROPRIATE, on how they have utilized this assistance in support of the development and enhancement of endogenous capacities, technologies and know-how.</p> <p>55. [...] ENCOURAGED to provide information on other relevant needs and/or areas for capacity-building other than those mentioned [...]</p>		<p>F. Information on technology development and transfer support received by developing country Parties under Article 10 of the Paris Agreement</p> <p>137. Developing country Parties SHOULD provide, in TEXTUAL format, information on technology development and transfer support received under Article 10 of the Paris Agreement, including on, TO THE EXTENT POSSIBLE, and as available and as applicable: [...]</p> <p>138. Developing country Parties SHOULD provide, in a common TABULAR format, information on technology development and transfer support received, including on, TO THE EXTENT POSSIBLE, and as available and as applicable: [...]</p> <p>G. Information on capacity-building support needed by developing country Parties under Article 11 of the Paris Agreement</p> <p>139. Developing country Parties SHOULD provide, in TEXTUAL format, information on capacity-building support needed under Article 11 of the Paris Agreement, including on, TO THE EXTENT POSSIBLE and as available and as applicable: [...]</p> <p>140. Developing country Parties SHOULD provide, in a common TABULAR format, information on capacity-building support needed, including the following, TO THE EXTENT POSSIBLE, and as available and as applicable: [...].</p> <p>H. Information on capacity-building support received by developing country Parties under Article 11 of the Paris Agreement</p> <p>141. Developing country Parties SHOULD provide, in TEXTUAL format, information on capacity-building support received under Article 11 of the Paris Agreement, including on, TO THE EXTENT POSSIBLE, and as available and as applicable: [...]</p>

COLOUR CODING

shall – red | should; may, encouraged; could; as appropriate; to the extent possible – light blue | flexibility - light green | table, tabular, textual, narrative, quantitative, qualitative – purple

Main element	National Communications (non-Annex I Parties) – provisions contained in decision 17/CP.8 and its annex	Biennial Update Reports (non-Annex I Parties) – provisions contained in decision 1/CP.17 and annex III	Biennial Transparency Reports (All Parties with flexibility to those developing country Parties that need it in the light of their capacities) – provisions contained in decision 18/CMA.1 and its annex
			<p>142. Developing country Parties SHOULD provide, in a common TABULAR format, information on capacity-building support received, including the following, TO THE EXTENT POSSIBLE and as available and as applicable: [...].</p> <p style="padding-left: 40px;">I. Information on support needed and received by developing country Parties for the implementation of Article 13 of the Paris Agreement and transparency-related activities, including for transparency-related capacity-building</p> <p>143. Developing country Parties SHOULD provide information on support needed and received for implementing Article 13 of the Paris Agreement and transparency-related activities, including on, TO THE EXTENT POSSIBLE: [...]</p> <p>144. Developing country Parties SHOULD provide, in a common TABULAR format, summary information on support needed and received for implementing Article 13 and transparency-related activities, including for transparency-related capacity-building, including, TO THE EXTENT POSSIBLE and as applicable: [...]</p> <p>145. In reporting information on support needed and received for the implementation of Article 13 of the Paris Agreement and transparency-related activities, including for transparency-related capacity-building, developing country Parties SHOULD ensure the avoidance of double counting in reporting this information separately from other information on financial, technology development and capacity-building support that is needed or received.</p>
Financial Resources and	A. Transfer of technologies	See above	

COLOUR CODING

shall – red | should; may, encouraged; could; as appropriate; to the extent possible – light blue | flexibility - light green | table, tabular, textual, narrative, quantitative, qualitative – purple

Main element	National Communications (non-Annex I Parties) – provisions contained in decision 17/CP.8 and its annex	Biennial Update Reports (non-Annex I Parties) – provisions contained in decision 1/CP.17 and annex III	Biennial Transparency Reports (All Parties with flexibility to those developing country Parties that need it in the light of their capacities) – provisions contained in decision 18/CMA.1 and its annex
Transfer of Technology	42. [...] are ENCOURAGED , in the light of their social and economic conditions, to provide information on activities relating to the transfer of, and access to, environmentally sound technologies and know-how, the development and enhancement of endogenous capacities, technologies and know-how, and measures relating to enhancing the enabling environment for development and transfer of technologies.		
Education, Training and Public Awareness	<p>C. Education, training and public awareness</p> <p>45. [...] invited to provide information on activities relating to climate change education, training and public awareness.</p>		
Research and systematic observation	<p>B. Research and systematic observation</p> <p>43. [...] ENCOURAGED to provide information on climate change research and systematic observation, including their participation in and contribution to activities and programmes, AS APPROPRIATE, of national, regional and global research networks and observing systems.⁷</p> <p>44. [...] ENCOURAGED to provide information on research relating to programmes containing measures to</p>		

COLOUR CODING

shall – red | should; may, encouraged; could; as appropriate; to the extent possible – light blue | flexibility - light green | table, tabular, textual, narrative, quantitative, qualitative – purple

Main element	National Communications (non-Annex I Parties) – provisions contained in decision 17/CP.8 and its annex	Biennial Update Reports (non-Annex I Parties) – provisions contained in decision 1/CP.17 and annex III	Biennial Transparency Reports (All Parties with flexibility to those developing country Parties that need it in the light of their capacities) – provisions contained in decision 18/CMA.1 and its annex
	mitigate climate change; programmes containing measures to facilitate adequate adaptation to climate change; and the development of emission factors and activity data.		
Information	<p>VI. Other information considered relevant to the achievement of the objective of the Convention</p> <p>41. [...] ENCOURAGED, AS APPROPRIATE, to provide information on any steps they have taken to integrate climate change considerations into relevant social, economic and environmental policies and actions [...]</p> <p>E. Information and networking</p> <p>48. [...] ENCOURAGED to provide information on their efforts to promote information sharing among and within countries and regions. Information COULD cover, AS APPROPRIATE, participation in and contribution to networks, and access to, and use of, information technologies for information exchange.</p>		
Submissions	<p>Years</p> <p>VII. Submission</p> <p>56. The information provided in accordance with these guidelines SHALL</p>	<p>VI. Submission</p> <p>17. The information provided in accordance with these guidelines SHOULD be communicated by each</p>	<p>I. Introduction</p> <p>E. Reporting format</p> <p>15. Each Party SHALL transmit its biennial transparency report, and national inventory report if submitted as a stand-alone report,</p>

COLOUR CODING

shall – red | should; may, encouraged; could; as appropriate; to the extent possible – light blue | flexibility - light green | table, tabular, textual, narrative, quantitative, qualitative – purple

Main element	National Communications (non-Annex I Parties) – provisions contained in decision 17/CP.8 and its annex	Biennial Update Reports (non-Annex I Parties) – provisions contained in decision 1/CP.17 and annex III	Biennial Transparency Reports (All Parties with flexibility to those developing country Parties that need it in the light of their capacities) – provisions contained in decision 18/CMA.1 and its annex
	<p>be communicated by each non-Annex I Party to the COP in a single document, with an executive summary outlining the information contained in the full document, in both hard copy and electronic format.</p> <p>57. [...] SHALL submit its national communication in one of the official languages of the United Nations. The executive summary, which is to be of no more than 10 pages, SHALL be translated into English and made publicly available. Parties are also ENCOURAGED to submit, TO THE EXTENT POSSIBLE and where relevant, English translations of their communications.</p> <p>58. Additional or supporting information MAY be supplied through other documents such as a technical annex.</p>	<p>non-Annex I Party to the COP, through the secretariat, in a single document, in electronic format.</p> <p>18. [...] SHOULD submit their biennial update reports in English or any one of the official United Nations languages.</p> <p>19. Additional or supporting information MAY be supplied through other documents, such as a technical annex.</p>	<p>via an online portal maintained by the secretariat. The secretariat SHALL post the reports on the UNFCCC website.</p> <p>16. Each Party SHALL submit the reports referred to in paragraphs 10 and 12 above in one of the official languages of the United Nations.</p>

COLOUR CODING

shall – red | should; may, encouraged; could; as appropriate; to the extent possible – light blue | flexibility - light green | table, tabular, textual, narrative, quantitative, qualitative – purple