Tabla S1a. Description of ISO14001.

	Activity	Subactivity		
<b>u</b> o	EMS1 Understanding the organization and its	1.1 The organization shall determine external and internal issues that are relevant to its purpose and that affect its ability to achieve the intended outcomes of its EMS		
att	context			
ganız	EMS2 Understanding the needs and expectations of interested parties	<ul><li>2.1 The organization shall determine the interested parties that are relevant to EMS</li><li>2.2 The organization shall determine the relevant needs and expectations (i.e. requirements) of these interested partie</li></ul>		
Context of the organization	EMS3 Determining of the scope of the	$3.1\mathrm{The}$ organization shall determine and document the boundaries and applicability of the EMS to establish its scope $3.1\mathrm{The}$ organization shall determine and document the boundaries and applicability of the EMS to establish its scope $3.1\mathrm{The}$ organization shall determine and document the boundaries and applicability of the EMS to establish its scope $3.1\mathrm{The}$ organization shall determine and document the boundaries and applicability of the EMS to establish its scope $3.1\mathrm{The}$ organization shall determine and document the boundaries and applicability of the EMS to establish its scope $3.1\mathrm{The}$ organization shall determine and document the boundaries and applicability of the EMS to establish its scope $3.1\mathrm{The}$ organization shall determine $3.1\mathrm{The}$		
ונבאו סו	Environmental management system			
5	(hereinafter, EMS) EMS4 EMS	4.1 The organization shall establish, implement, maintain and continually improve an EMS		
	EMS5 Leadership and commitment	5.1 Top management shall demonstrate leadership and commitment with respect to the EMS by: taking accountability for the effectiveness of the EMS, etc.		
	EMS6 Environmental policy	6.1 Top management shall establish, implement and maintain an environmental policy that, within the defined scope of its environmental management system:		
		<ul> <li>a) is appropriate to the purpose and context of the organization, including the nature, scale and environmental impacts of its activities, products and services;</li> </ul>		
duisianear		<ul><li>b) provides a framework for setting environmental objectives;</li><li>c) includes a commitment to the protection of the environment, including prevention of pollution and other specific commitment(s) relevant to the context of the organization;</li></ul>		
Í		d) includes a commitment to fulfil its compliance obligations;		
a c		e) includes a commitment to continual improvement of the environmental management system to enhance		
1		environmental performance.		
		The environmental policy shall:		
		<ul><li>be maintained as documented information;</li><li>be communicated within the organization;</li></ul>		
		be communicated within the organization,     be available to interested parties		
	EMS7 Organizational roles, responsibilities and authorities	7.1 Top management shall ensure that the responsibilities and authorities for relevant roles are assigned and communicated within the organization		
	EMS8 Actions to deal with risks and opportunities	8.1 The organization shall determine the risks and opportunities, related to its environmental aspect and how to deal with them		
	EMS9 Significant	9.1 The organization shall determine the environmental aspects of its activities, products and services		
	environmental aspects	9.2 The organization shall determine those aspects that have or can have a significant environmental		
		9.3 The organization shall determine significant environmental aspects, by using established criteria		
		9.4 The organization shall communicate and document its significant environmental aspects among the various level		
		and functions of the organization, as appropriate  9.5 Consider the implications of the organization on its own environmental performance		
		9.6 Identify and collect quantitative and / or qualitative data on the characteristics of their activities, products or		
	EMS10 Legal	services  10.1 The organization shall determine and have access to the compliance obligations related to its environmental		
	requirements	aspects 10.2 The organization shall determine how these compliance obligations apply to the organization		
		10.3 The organization shall take these compliance obligations into account when establishing, implementing, maintaining and continually improving its EMS		
bD.		10.4 Communicate to all people who work in the organization or act on their behalf		
amma		10.5 Establish procedures to anticipate and prepare for new or modified requirements.		
<b>=</b>	EMC11 Astismustamina	10.6 Prepare an updated register of applicable legal requirements		
=	EMS11 Action planning	11.1 Establish implement or maintain plans to address nonconformities and take preventive actions 11.2 Identify nonconformities and take preventive measures to mitigate their impact		
		11.3 Investigate and determine in order to take actions to prevent environmental impacts		
		11.4 Evaluate the need for actions to prevent non-conformities		
	EMS12 Objectives,	12.1 The organization shall establish environmental objectives at relevant functions and levels, taking into account the		
	environmental goals and programs	organization's significant environmental aspects and associated compliance obligations, and considering its risks and opportunities		
	programs	12.2 Establish rules to measure compliance with the objectives and goals of the EMS		
		12.3 Documentation and communication of environmental objectives and goals		
		12.4 State coherent objectives with the environmental policy, including the commitment with the prevention of		
		pollution, compliance with legal requirements and continuous improvement  12.5 Take into account the functions, responsibilities, process, resources, deadlines, priorities and actions necessary to		
		achieve the objectives and goals		
	EMS13 Planning of	13.1 Design plans to monitor the progress of objectives and goals		
	actions to achieve	13.2 Establish implement and maintain one or several programs to achieve objectives and goals		
	environmental objectives and goals	13.3 Assignment of responsibilities to achieve the objectives and goals in the relevant functions and levels of the organization		
	,	13.4 Establish the means and deadlines to achieve the objectives set forth in the program		
	EMS14 Resources	14.1 The organization shall determine and provide the resources needed for the establishment, implementation, maintenance and continual improvement of the environmental management system. The allocation of resources		
		14.1 The organization shall determine and provide the resources needed for the establishment, implementation, maintenance and continual improvement of the environmental management system. The allocation of resources should be reviewed periodically to ensure their adequacy.		
- Lauroni	EMS14 Resources  EMS15 Competence	<ul><li>14.1 The organization shall determine and provide the resources needed for the establishment, implementation, maintenance and continual improvement of the environmental management system. The allocation of resources should be reviewed periodically to ensure their adequacy.</li><li>15.1 The organization shall determine the necessary competence of person(s) doing work under its control that affects</li></ul>		
operation		14.1 The organization shall determine and provide the resources needed for the establishment, implementation, maintenance and continual improvement of the environmental management system. The allocation of resources should be reviewed periodically to ensure their adequacy.		
יוות סליבו מנות		<ul><li>14.1 The organization shall determine and provide the resources needed for the establishment, implementation, maintenance and continual improvement of the environmental management system. The allocation of resources should be reviewed periodically to ensure their adequacy.</li><li>15.1 The organization shall determine the necessary competence of person(s) doing work under its control that affects its environmental performance and its ability to fulfil its compliance obligations;</li></ul>		
וטוו מווט טףפרמנוטוו		<ul> <li>14.1 The organization shall determine and provide the resources needed for the establishment, implementation, maintenance and continual improvement of the environmental management system. The allocation of resources should be reviewed periodically to ensure their adequacy.</li> <li>15.1 The organization shall determine the necessary competence of person(s) doing work under its control that affects its environmental performance and its ability to fulfil its compliance obligations; ensure that these persons are competent on the basis of appropriate education, training or experience</li> </ul>		
וומווטו מזות סףפומוטוו		14.1 The organization shall determine and provide the resources needed for the establishment, implementation, maintenance and continual improvement of the environmental management system. The allocation of resources should be reviewed periodically to ensure their adequacy.  15.1 The organization shall determine the necessary competence of person(s) doing work under its control that affects its environmental performance and its ability to fulfil its compliance obligations; ensure that these persons are competent on the basis of appropriate education, training or experience 15.2 Determine training needs associated with its environmental aspects and its environmental management system		
miprementation and operation		14.1 The organization shall determine and provide the resources needed for the establishment, implementation, maintenance and continual improvement of the environmental management system. The allocation of resources should be reviewed periodically to ensure their adequacy.  15.1 The organization shall determine the necessary competence of person(s) doing work under its control that affect its environmental performance and its ability to fulfil its compliance obligations; ensure that these persons are competent on the basis of appropriate education, training or experience 15.2 Determine training needs associated with its environmental aspects and its environmental management system 15.3 Where applicable, take actions to acquire the necessary competence, and evaluate the effectiveness of the actions		

	EMS17 Communication	17.1 The organization shall establish, implement and maintain the process(es) needed for internal and external communications relevant to the EMS
		17.2 The organization shall internally communicate information relevant to the environmental management system
		among the various levels and functions of the organization, including changes to the environmental management
		system, as appropriate
		17.3 Document communication decision with its external stakeholders
		17.4 The organization shall externally communicate information relevant to the environmental management system, a
		established by the organization's communication process(es) and as required by its compliance obligations
	TI KOLO D	17.5 Establish procedures to receive, document and respond to relevant communications from interested parties
	EMS18 Documented	18.1 The organization's EMS shall include documented information required by this International Standard taking in
	information	account the policy, objectives and goals  18.2 When creating and updating documented information, the organization shall ensure appropriate:
		a) identification and description (e.g. a title, date, author, or reference number);
		b) format (e.g. language, software version, graphics) and media (e.g. paper, electronic);
		c) review and approval for suitability and adequacy
	EMS19 Planning and	19.1 Identify and plan operations associated with significant environmental aspects
	operational control	19.2 Establish, implement and maintain documented procedures to control situations that deviate from the
		environmental policy, objectives and goals
		19.3 Establish operational criteria in the working procedures
		19.4 Establish documented procedures for goods and services used by the organization
	EM (200 D 1	19.5 Communicate the procedures and requirements to suppliers and contractors
	EMS20 Preparation and	20.1 The organization shall establish, implement and maintain the process(es) needed to prepare for and respond to
	response in case of emergency	potential emergency situations 20.2 The organization shall prepare to respond by planning actions to prevent or mitigate adverse environmental
	emergency	impacts from emergency situations; respond to actual emergency situations; take action to prevent or mitigate the
		consequences of emergency situations, appropriate to the
		magnitude of the emergency and the potential environmental impact
		20.3 Periodically review and revise the process(es) and planned response actions, in particular after the occurrence of
		emergency situations or tests
		20.4 Periodically test the planned response actions, where practicable
	EMS21 Monitoring,	21.1 The organization shall monitor, measure, analyse and evaluate its environmental performance.
	measurement, analysis	The organization shall determine: a) what needs to be monitored and measured; b) the methods for monitoring,
	and evaluation	measurement, analysis and evaluation, as applicable, to ensure valid results; c) the criteria against which the
		organization will evaluate its environmental performance, and appropriate indicators; d) when the monitoring and measuring shall be performed; e) when the results from monitoring and measurement shall be analysed and evaluate
		21.2 The organization shall ensure that calibrated or verified monitoring and measurement equipment is used and
		maintained, as appropriate
	EMS22 Assessment of	22.1 The organization shall establish, implement and maintain the process(es) needed to evaluate fulfilment of its
	legal compliance	compliance obligations.
		The organization shall: a) determine the frequency that compliance will be evaluated; b) evaluate compliance and take
		action if needed; c) maintain knowledge and understanding of its compliance status.
		22.2 The organization shall retain documented information as evidence of the compliance evaluation result(s)
	EMS23 Internal audit	23.1 The organization shall conduct internal audits at planned intervals
		23.2 The organization shall establish, implement and maintain (an) internal audit programme(s), including
		the frequency, methods, responsibilities, planning requirements and reporting of its internal audits 23.3 The organization shall: a) define the audit criteria and scope for each audit; b) select auditors and conduct audits
		to ensure objectivity and the impartiality of the audit process; c) ensure that the results of the audits are reported to
		relevant management.
	EMS24 Review by	24.1 Top management shall review the organization's environmental management system, at planned intervals, to
	management	ensure its continuing suitability, adequacy and effectiveness
	-	24.2 The organization shall retain documented information as evidence of the results of management reviews
		24.3 The outputs of the management review shall include: conclusions on the continuing suitability, adequacy and
		effectiveness of the environmental management system; decisions related to continual improvement opportunities;
		decisions related to any need for changes to the evironmental management system, including resources; actions, if
		needed, when environmental objectives have not been achieved; opportunities to improve integration of the
		environmental management system with other business processes, if needed; any implications for the strategic direction of the organization.
	EMS25 Improvement of	25.1 When a nonconformity occurs, the organization shall:
	non-compliance,	a) react to the nonconformity and, as applicable:
	corrective action	1) take action to control and correct it;
		2) deal with the consequences, including mitigating adverse environmental impacts;
		b) evaluate the need for action to eliminate the causes of the nonconformity, in order that it does not
		recur or occur elsewhere, by:
		1) reviewing the nonconformity;
		2) determining the causes of the nonconformity;
		3) determining if similar nonconformities exist, or could potentially occur;
		c) implement any action needed;
		d) review the effectiveness of any corrective action taken;
		e) make changes to the environmental management system, if necessary.
•		Corrective actions shall be appropriate to the significance of the effects of the nonconformities encountered, including
		the environmental impact(s).
		The organization shall retain documented information as evidence of:
		<ul> <li>the nature of the nonconformities and any subsequent actions taken;</li> </ul>
		<ul> <li>the nature of the nonconformities and any subsequent actions taken;</li> <li>the results of any corrective action</li> </ul>
	EMS26 Continuous	- the results of any corrective action 26.1 Define the EMS
	EMS26 Continuous improvement	— the results of any corrective action

# Tabla S1b. Description of GRI G4.

Phase	Gene	eral	Activity
	stand	ard	
	conte	ents	
Prepare	ategy and Analysis	G4-1	Provide a statement from the most senior decision-maker of the organization (such as CEO, chair, orequivalent senior position) about the relevance of sustainability to the organization and the organization's strategy for addressing sustainability.  The statement should present the overall vision and strategy for the short term, medium term, and long term, particularly with regard to managing the significant economic, environmental and social impacts that the organization causes and contributes to, or the impacts that can be linked to its activities as a result of relationships with others (such as suppliers, people or organizations in local communities). The statement should include:  Strategic priorities and key topics for the short and medium term with regard to sustainability,including respect for
	Str		internationally recognized standards and how such standards relate to long term organizational strategy and

		<ul> <li>Broader trends (such as macroeconomic or political) affecting the organization and influencing sustainability</li> </ul>
		priorities
		Key events, achievements, and failures during the reporting period
		<ul> <li>Views on performance with respect to targets</li> <li>Outlook on the organization's main challenges and targets for the next year and goals for the coming 3–5 years</li> </ul>
-		Other items pertaining to the organization's strategic approach
	G4-2	Provide a description of key impacts, risks, and opportunities. The organization should provide two concise narrative sections on
		key impacts, risks, and opportunities. Section One should include: A description of the significant economic, environmental and social impacts of the organization, and associated challenges and opportunities.
		Section Two should focus on the impact of sustainability trends, risks, and opportunities on the longterm
		prospects and financial performance of the organization
_	G4-3	Report the name of the organization.
-	G4-4 G4-5	Report the primary brands, products, and services
-	G4-5	Report the location of the organization's headquarters  Report the number of countries where the organization operates, and names of countries where either the organization has
		significant operations or that are specifically relevant to the sustainability topics covered in the report
_	G4-7	Report the nature of ownership and legal form
-	G4-8 G4-9	Report the markets served (including geographic breakdown, sectors served, and types of customers and beneficiaries)
	G4-9	Report the scale of the organization, including:  • Total number of employees
		Total number of operations
		Net sales (for private sector organizations) or net revenues (for public sector organizations)
		<ul> <li>Total capitalization broken down in terms of debt and equity (for private sector organizations)</li> <li>Quantity of products or services provided</li> </ul>
-	G4-10	Report the total number of employees by employment contract and gender. Report the total number of permanent employees by
		employment type and gender.
		Report the total workforce by employees and supervised workers and by gender.
ofile		Report the total workforce by region and gender.  Report whether a substantial portion of the organization's work is performed by workers who are legally recognized as self-
1 Pr		employed, or by individuals other than employees or supervised workers, including employees and supervised employees of
iona		contractors.
Organizational Profile		Report any significant variations in employment numbers (such as seasonal variations in employment in the tourism or agricultural industries)
gan	G4-11	Report the percentage of total employees covered by collective bargaining agreements
ō -	G4-12	Describe the organization's supply chain
	G4-13	Report any significant changes during the reporting period regarding the organization's size, structure, ownership, or its supply
		chain, including:  • Changes in the location of, or changes in, operations, including facility openings, closings, and expansions
		<ul> <li>Changes in the location of or changes in, operations, including facility operations, and expansions</li> <li>Changes in the share capital structure and other capital formation, maintenance, and alteration operations (for</li> </ul>
		private sector organizations) Changes in the location of suppliers, the structure of the supply chain, or in
_		relationships with suppliers, including selection and termination
-	G4-14 G4-15	Report whether and how the precautionary approach or principle is addressed by the organization  List externally developed economic, environmental and social charters, principles, or other initiatives to which the organization
	G4-13	subscribes or which it endorses
_	G4-16	List memberships of associations (such as industry associations) and national or international advocacy organizations in which
		the organization:
		<ul> <li>Holds a position on the governance body</li> <li>Participates in projects or committees</li> </ul>
		Provides substantive funding beyond routine membership dues
		Views membership as strategic
	G4-56	This refers primarily to memberships maintained at the organizational level
and rity	G4-57	Describe the organization's values, principles, standards and norms of behavior such as codes of conduct and codes of ethics  Report the internal and external mechanisms for seeking advice on ethical and lawful behavior, and matters related to
Ethics a Integri		
Ethics a Integr		organizational integrity, such as helplines or advice lines
ΞI	G4-58	organizational integrity, such as helplines or advice lines  Report the internal and external mechanisms for reporting concerns about unethical or unlawful behavior, and matters related to
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			risks, and opportunities. Include the highest governance body's role in the implementation of due diligence processes.  Report whether stakeholder consultation is used to support the highest governance body's identification and management of
	-	G4-46	economic, environmental and social impacts, risks, and opportunities  Report the highest governance body's role in reviewing the effectiveness of the organization's risk management processes for
	-	G4-47	economic, environmental and social topics  Report the frequency of the highest governance body's review of economic, environmental and social impacts, risks, and
	-	G4-48	opportunities  Report the highest committee or position that formally reviews and approves the organization's sustainability report and ensures
	-	G4-49	that all material Aspects are covered  Report the process for communicating critical concerns to the highest governance body
		G4-50	Report the nature and total number of critical concerns that were communicated to the highest governance body and the
	-	G4-51	mechanism(s) used to address and resolve them  Report the remuneration policies for the highest governance body and senior executives for the below types of remuneration:
		a a	<ul> <li>Fixed pay and variable pay: – Performance-based pay – Equity-based pay – Bonuses – Deferred or vested shares</li> <li>Sign-on bonuses or recruitment incentive payments</li> <li>Termination payments</li> <li>Clawbacks</li> <li>Retirement benefits, including the difference between benefit schemes and contribution rates for the highest</li> </ul>
		C4 F2	governance body, senior executives, and all other employees
		G4-52	Report the process for determining remuneration. Report whether remuneration consultants are involved in determining remuneration and whether they are independent of management. Report any other relationships which the remuneration consultants have with the organization
		G4-53	Report how stakeholders' views are sought and taken into account regarding remuneration, including the results of votes on remuneration policies and proposals, if applicable
Prepare	Governance	G4-54	Report the ratio of the annual total compensation for the organization's highest-paid individual in each country of significant operations to the median annual total compensation for all employees (excluding the highest-paid individual) in the same country
Ā	. Go	G4-55	Report the ratio of percentage increase in annual total compensation for the organization's highest-paid individual in each country of significant operations to the median percentage increase in annual total compensation for all employees (excluding the highest-paid individual) in the same country
	Identified Material Aspects and	G4-17	List all entities included in the organization's consolidated financial statements or equivalent documents. Report whether any entity included in the organization's consolidated financial statements or equivalent documents is not covered by the report. The organization can report on this Standard Disclosure by referencing the information in publicly available consolidated financial statements or equivalent documents
Connect		G4-24	Provide a list of stakeholder groups engaged by the organization
0	er .	G4-25	Report the basis for identification and selection of stakeholders with whom to engage
	hold	G4-26	Report the organization's approach to stakeholder engagement, including frequency of engagement by type and by stakeholder group, and an indication of whether any of the engagement was undertaken specifically as part of the report preparation process
	Stakeholder Engagement	G4-27	Report key topics and concerns that have been raised through stakeholder engagement, and how the organization has responded to those key topics and concerns, including through its reporting. Report the stakeholder groups that raised each of the key topics and concerns
		G4-19	List all the material Aspects identified in the process for defining report content
o.	Aspects and Boundaries	G4-20	<ul> <li>For each material Aspect, report the Aspect Boundary within the organization, as follows:         <ul> <li>Report whether the Aspect is material within the organization</li> </ul> </li> <li>If the Aspect is not material for all entities within the organization (as described in G4-17), select one of the following two approaches and report either: – The list of entities or groups of entities included in G4-17 for which the Aspect is not material or – The list of entities or groups of entities included in G4-17 for which the Aspects is material</li> <li>Report any specific limitation regarding the Aspect Boundary within the organization</li> </ul>
efine	Aspe	G4-21	For each material Aspect, report the Aspect Boundary outside the organization, as follows:
Ω	Identified Material		<ul> <li>Report whether the Aspect is material outside of the organization</li> <li>If the Aspect is material outside of the organization, identify the entities, groups of entities or elements for which the Aspect is material. In addition, describe the geographical location where the Aspect is material for the entities identified</li> </ul>
	lentii	G4-23	Report any specific limitation regarding the Aspect Boundary outside the organization  Report significant changes from previous reporting periods in the Scope and Aspect Boundaries
	Ic		
Supervise	Governance	G4-44	Report the processes for evaluation of the highest governance body's performance with respect to governance of economic, environmental and social topics. Report whether such evaluation is independent or not, and its frequency. Report whether such evaluation is a self-assessment Report actions taken in response to evaluation of the highest governance body's performance with respect to governance of economic, environmental and social topics, including, as a minimum, changes in membership and organizational practice.
	-	G4-51 b	Report how performance criteria in the remuneration policy relate to the highest governance body's and senior executives' economic, environmental and social objectives
		G4-28	Reporting period (such as fiscal or calendar year) for information provided
		G4-29	Date of most recent previous report (if any)
	-	G4-30	Reporting cycle (such as annual, biennial)
	offile	G4-31 G4-32	Provide the contact point for questions regarding the report or its contents  Report the 'in accordance' option the organization has chosen
	Σĭς		Report the GRI Content Index for the chosen option (see tables below)  Report the reference to the External Assurance Report, if the report has been externally assured. GRI recommends the use of
Report	port		
Report	Report Profile	G4-33	external assurance but it is not a requirement to be 'in accordance' with the Guidelines  Report the organization's policy and current practice with regard to seeking external assurance for the report  If not included in the assurance report accompanying the sustainability report, report the scope and basis of any external assurance provided

Activity

Phase

sis	1. Description of the organization		1.1.1 Obtain information regarding the organization
analy	1.2 Legal requirements		1.2.1 Identify legal requirements and others
ntal	1.3 Direct and indirect environmental aspects     1.4 Criteria for the evaluation of significant environmental aspects		1.3.1 Indicate direct and indirect environmental aspects
1. Environmental analysis			1.4.1 Establish criteria to evaluate the significant nature of environmental aspects
En	1.5 Practices and	d procedures of previous incidents	<ul><li>1.5.1 Establish environmental management practices and procedures</li><li>1.6.1 Obtain information from investigations of previous incidents with environmental repercussions</li></ul>
	2.1 Environmental policy		2.1.1 Top management shall define the organisation's environmental policy
		2.2.1 Environmental aspects	2.2.1.1 Identify the environmental aspects of its activities, products and services 2.2.1.2 Determine those aspects that have or can have significant impact(s) on the environment (i.e. significant environmental aspects) 2.2.1.3 The organisation shall document this information and keep it up to date 2.2.1.4 The organisation shall ensure that the significant environmental aspects are taken into account
	2.2 Planning	2.2.2 Legal and other requirements	in establishing, implementing and maintaining its environmental management system  2.2.2.1 Identify and have access to the applicable legal requirements and other requirements to which the organisation subscribes related to its environmental aspects  2.2.2.2 Determine how these requirements apply to its environmental aspects  2.2.2.3 The organisation shall ensure that these applicable legal requirements and other requirements to which the organisation subscribes are taken into account in establishing, implementing and
		2.2.3 Objectives and goals	maintaining its environmental management system  2.2.3.1 The organisation shall establish, implement and maintain documented environmental objectives and goals, at relevant functions and levels within the organisation  2.2.3.2 The objectives and goals shall be measurable, where practicable, and consistent with the environmental policy, including the commitments to prevention of pollution, to compliance with applicable legal requirements and with other requirements to which the organisation subscribes, and to continual improvement  2.2.3.3 When establishing and reviewing its objectives and targets, an organisation shall take into account the legal requirements and other requirements to which the organisation subscribes, and its significant environmental aspects. It shall also consider its technological options, its financial, operational and business requirements, and the views of interested parties
		2.2.4 Programme(s)	2.2.4.1 The organisation shall establish, implement and maintain a programme(s) for achieving its objectives and goals
iMS	2.3 Implementation and operation	2.3.1 Resources, roles, responsibility and authority	2.3.1.1 Management shall ensure the availability of resources essential to establish, implement, maintain and improve the environmental management system. Resources include human resources and specialised skills, organisational infrastructure, technology and financial resources 2.3.1.2 Roles, responsibilities and authorities shall be defined, documented and communicated in order to facilitate effective environmental management 2.3.1.3 The organisation's top management shall appoint a specific management representative(s) where the state of the s
ication of an i		2.3.2 Employee involvement	irrespective of other responsibilities, shall have defined roles, responsibilities and authority  2.3.2.1 The organisation should acknowledge that active employee involvement is a driving force and a prerequisite for continuous and successful environmental improvements as well as being a key resource in the improvement of environmental performance as well as the right method to anchor th environmental management and audit system in the organisation in a successful way
z. Development anu application of an Eivis		2.3.3 Competence, training and awareness	2.3.3.1 The organisation shall ensure that any person(s) performing tasks for it or on its behalf that have the potential to cause a significant environmental impact(s) identified by the organisation is (are competent on the basis of appropriate education, training or experience, and shall retain associated records 2.3.3.2 The organisation shall identify training needs associated with its environmental aspects and it
7. 26.			environmental management system. It shall provide training or take other action to meet these needs and shall retain associated records 2.3.3.3 The organisation shall establish, implement and maintain a procedure(s) to make persons working for it or on its behalf aware
		2.3.4 Communication	2.3.4.1 The organisation shall establish, implement and maintain a procedure(s) for: (a) internal communication among the various levels and functions of the organisation; (b) receiving, documenting and responding to relevant communication from external interested parties. The organisation shall decide whether to communicate externally about its significant environmenta aspects, and shall document its decision. If the decision is to communicate, the organisation shall establish and implement a method(s) for this external communication
		2.3.5 Documentation	2.3.5.1 The environmental management system documentation shall include: (a) the environmental policy, objectives and targets; (b) description of the scope of the environmental management system; (c) description of the main elements of the environmental management system and their interaction, and reference to related documents; (d) documents, including records, required by this International Standard; and (e) documents, including records, determined by the organisation to be necessary to ensure the effective planning, operation and control of processes that relate to its significant environmental aspects.
		2.3.6 Control of documents	2.3.6.1 The organisation shall establish, implement and maintain a procedure(s) to (a) approve documents for adequacy prior to issue; (b) review and update as necessary and re-approve documents, (c) ensure that changes and the current revision status of documents are identified; (d) ensure that relevant versions of applicable documents are available at points of use
		2.3.7 Operational control	2.3.7.1 The organisation shall identify and plan those operations that are associated with the identifies significant environmental aspects consistent with its environmental policy, objectives and targets, in order to ensure that they are carried out under specified condition
		2.3.8 Emergency preparedness and response	2.3.8.1 The organisation shall establish, implement and maintain a procedure(s) to identify potential emergency situations and potential accidents that can have an impact(s) on the environment and how it will respond to them  2.3.8.2 The organisation shall respond to actual emergency situations and accidents and prevent or mitigate associated adverse environmental impacts  2.3.8.3 The organisation shall periodically review and, where necessary, revise its emergency preparedness and response procedures, in particular, after the occurrence of accidents or emergency situations

Subactivity

	u	2.4.1 Monitoring and measurement	2.4.1.1 The organisation shall establish, implement and maintain a procedure(s) to monitor and measure, on a regular basis, the key characteristics of its operations that can have a significant environmental impact 2.4.1.2 The organisation shall ensure that calibrated or verified monitoring and measurement equipment is used and maintained and shall retain associated records
	ective actic	2.4.2 Evaluation of compliance	2.4.2.1 The organisation shall establish, implement and maintain a procedure(s) for periodically evaluating compliance with applicable legal requirements.     2.4.2.2 The organisation shall keep records of the results of the periodic evaluations
	2.4 Verification and corrective action	2.4.3 Non-conformity, corrective action and preventive action	2.4.3.1 The organisation shall establish, implement and maintain a procedure(s) for dealing with actual and potential non-conformity(ies) and for taking corrective action and preventive action
		2.4.4 Control of records	2.4.4.1 The organisation shall establish and maintain records as necessary to demonstrate conformity to the requirements of its environmental management system and of this International Standard, and the results achieved 2.4.4.2 The organisation shall establish, implement and maintain a procedure(s) for the identification, storage, protection, retrieval, retention and disposal of records. Records shall be and remain legible, identifiable and traceable
		2.4.5 Internal audit	2.4.5.1 The organisation shall ensure that internal audits of the environmental management system are conducted at planned intervals
	2.5 Managemen	ıt review	2.5.1 Top management shall review the organisation's environmental management system, at planned intervals, to ensure its continuing suitability, adequacy and effectiveness. Reviews shall include assessing opportunities for improvement and the need for changes to the environmental management system, including the environmental policy and environmental objectives and targets
3. Environ mental Declara tion	3.1 Prepare the Declaration	Environmental	3.1.1 Prepare a communication document to inform the interested parties of applicable aspects regarding the environment
	4.1 Initial / renewal audit (Phase I).		
m and nental	4.1 Initial / rene	wal audit (Phase I).	4.1.1 Provide information to the environmental verifier regarding the environmental statement, policy, etc.
n of the System and the environmental claration		wal audit (Phase I). wal audit (Phase II)	
4. Verification of the System and validation of the environmental declaration	4.2 Initial / rene		etc.
	4.2 Initial / rene 4.3 Intermediate	wal audit (Phase II)	4.2.1 On-site verification by the environmental verifier  4.3.1 The verifier will issue an audit report and, where appropriate, it will be necessary to prepare a corrective action plan (PAC) by the Organization. The final agreement will resolve about maintaining the certification and validating the updated environmental statement directly or, where appropriate, subject to an extraordinary audit or about the temporary suspension or withdrawal or reduction of the
5. Registry validation of the System and validation of the environmental EMAS	4.2 Initial / rene 4.3 Intermediate 5.1 Registration	ewal audit (Phase II)  e follow-up audits	4.2.1 On-site verification by the environmental verifier  4.3.1 The verifier will issue an audit report and, where appropriate, it will be necessary to prepare a corrective action plan (PAC) by the Organization. The final agreement will resolve about maintaining the certification and validating the updated environmental statement directly or, where appropriate, subject to an extraordinary audit or about the temporary suspension or withdrawal or reduction of the scope of the certification

# Tabla S1d. Description of SGE21.

Phase	Activity	Subactivity
1. Sensitization to Management	1.1 Loyal Competition	1.1.1 The organization must respect the Intellectual Property of their competitors, and will not use undue actions to obtain information about them and will not disseminate false or biased information against them. In case of differences or disputes in this sense, agreements amongst the parties and arbitration formulas must be promoted as means of resolutions     1.1.2 The organization will maintain records of claims and specifics requirements related to competitors and the measures undertaken in this regard
2. Initial Analysis	2.1 Quality and Excellence	2.1.1 The organization must guarantee its activity is developed in accordance with the highest quality standards  For this, the organization must undertake the following actions:  a) Publicly communicate, at the top management level, its commitment in regards to quality  b) Provide information to all those individuals working in the organization, or on its behalf, the defined quality principles, while also providing training for those that due to their working filed have a greater incidence in the quality of the product or service provided by the organization  c) Conduct evaluations of client satisfaction, analyze the results and elaborate action plans for improvement  d) Whenever defects or flaws in the product or the service might be detected, the client must be informed and the necessary repair and reposition measures will be implemented
	2.2 Legal and normative compliance	2.2.1 The organization will guarantee the control and compliance with the legal requirements that affect its activity, including general and local legislation as well as sector-specific regulations, especially in social, labour and environmental standards. For this, the organization will remain updated in the identification of the applicable legislation, establishing a compliance system and measure to prevent crimes
	2.3 Transparency of the information	2.3.1 The organization must publish their annual account making them publicly available
	2.4 Security of the information	2.4.1 Guarantee the security of the information that is used by your stakeholders
	2.5 Responsible purchasing	2.5.1 The organization must define criteria for responsible purchasing in regards to social, environmental and good governance, best practices that are achievable and go beyond the applicable legal obligations
	2.6 Responsible information of products and services	2.6.1 The organization must present at all times clear and honest information about its products and services in its communication to clients. To do this, it has to supervise and guarantee that the following aspects are complied with:     a) Clear and unmistakable identification of the product and service     b) Commercial offer, including the final price, payment and delivery conditions     c) Technical specification of the product or service in regards to recommendations, risks, and impacts on health, safety and the environment as well as the use and conservation conditions

3. Study of interest groups	3.1 Stakeholder engagement	3.1.1 Identify and classify stakeholder groups 3.1.2 Adopt a methodology to detect their expectations
and relationships		3.1.3 Design and prioritize action plans and communications with them 3.1.4 Maintain evidences of the results of the developed actions
•	3.2 Transparency with the	3.2.1 Ensure transparency in its activity with respect to stakeholders
	environment 3.3 Cooperation and alliances	3.3.1 The organization must promote the development of associations and forums that serve to common interest and that become platforms for exchange of experiences with competitors as well common cooperation channels to ensure an improvement in corporate responsible management at leadership in regards to sustainable development. The organization must maintain evidences of the main actions undertaken, identifying the individual or department in charge of leading the relationship as well as its results and obtained achievements
	3.4 Collaboration with the	3.4.1 Implement dialogue and communication channels with the Administrators
4 Davidonment	Administrators	4.1.1 The arganization will define and maintain a Social responsibility Policy. This policy should
4. Development of Policies and Code	4.1 Social responsibility policy	4.1.1 The organization will define and maintain a Social responsibility Policy. This policy should: a) Include the commitment to integrated social, environmental, ethical and good governance aspects the operations and strategy. The objective of this commitment should be to maximize the positive impact on stakeholders b) Be approved by the organization at the highest level of the organization or in its name d) Be publicly available
	4.2 Anticorruption Policy	4.2.1 The organization must define a policy to fight corruption, which, among others, should include: a) Measure to eradicate the practices associated with bribery and extortion b) Criteria for the receipt and issuing of gifts c) Processes for the detection and limitation of conflict of interests d) Feedback and guidance mechanisms on business conduct for employees e) Speak up systems to report misconduct The organization must guarantee that all individuals with decision-making capacity are aware ar understand the policy. Evidences regarding the undertaken measures in case of noncompliance mu be maintained
	4.3 Responsible marketing and advertising	4.3.1 The organization must establish principles that guide their actions in marketing and advertisir in respect of the promotion of their product or service
	4.4 Code of Conduct	4.4.1 The organization will elaborate a Code of Conduct, which should:  a) Be specific and coherent with its values while developing and detailing the Social Responsibility Policy  b) Be approved at the highest level of the organization
		c) Define the channels and adequate ways to resolve questions, complains and suggestions abo aspects related to the Ethical and Socially Responsible Management of the organization. The channels should guarantee the absence of possible retaliations regarding its use as well as in the following up of registered incidences d) Establish sanctions applicable in case of lack of compliance e) Be known and understood by all the individuals that work for the organization or in its name 4.4.2 The organization must define the mechanisms that facilitate the review, update and compliant with this code.
	4.5 Coordinator of social responsibility/ethical management	4.5.1 The organization will name a coordinator of the Ethical and Socially Responsible Manageme System
	4.6 Good Governance, ownership and management	4.6.1 The relationship of the organization with its investors must follow the principles of transparence loyalty and sustainable value creation. For this, it should develop a formal protocol for investor relations or a Good Governance Code, which must be available to them
5. Documentary Development	5.1 Objectives and Indicators	5.1.1 Prepare a Social Responsibility Plan with measurable, comparable and verifiable objectives. Said plan must incorporate the responsibilities, execution deadlines and applicable resources 5.1.2 Evaluate compliance with the plan
	5.2 Ethical and Socially Responsible Management Committee	5.2.1 Write the documentation of the ethical and socially responsible management system
	5.3 Identification of activities and impacts	5.3.1 The organization must take into account the impact of their processes, activities, products ar services have or could have on the environment in which it operates, including its supply chain. For this, the organization must identify and evaluate those aspects related to its operations as well the significant impacts over the environment, with the objective of managing and minimizing them
	5.4 Evaluation System	5.4.1 The organization must periodically evaluate and rank its suppliers in terms of relevance for ibusiness activity. This ranking must determine the actions that are taken in regards to follow-up ar control of suppliers
	5.5 Measurement and evaluation of social impact	5.5.1 The organization must take into account the repercussions that its business processes, projec and activities have on the communities where it operates. For this, it must identify and evaluate i current and potential social impacts, negative and positive, as well as well as develop action plans ar concrete measures for each
	5.6 Risk management	<ul><li>5.6.1 The organization must conduct an identification, analysis and categorization of the main ES risks that affect it which shall be reviewed annually</li><li>5.6.2 Design and develop a mitigation plan for these risks</li><li>5.6.3 Measure the efficiency of the actions developed in this regards</li></ul>
	5.7 Environmental	5.7.1 Report on environmental aspects
	5.8 Climate change strategy	5.8.1 The organization must commit in a concrete manner to fighting climate change. For this, it has
		define a strategy that is adequate to the significant aspects and impacts identified in the organization through which it should implement concrete actions to reduce GEI emissions. Evidences of the obtained results must be maintained
	5.9 Environmental management program	5.9.1 The organization must establish an operational and specific environmental management progration its working facilities that is aligned and coherent with its environmental commitment and its soci responsibility plan. This program must include objectives and measurable indicators that allow for the adequa monitoring as well as prevent and manage the produced impacts of its activities and processes 5.9.2 This program must be revised annually and when there are any changes within the organization that could affect the current identification
	5.10 Social Responsibility and Communication Report	5.10.1 Make the report of Social Responsibility, including the profile of the organization; the strategy and management of Social Responsibility; the mechanisms of dialogue with the groups of interest and the main economic, social and environmental indicators 5.10.2 Disseminate said report and present it every two years
	5.11 Responsible innovation	5.11.1 The organization shall provide responsible and competitive products and services. For this, should include in the design and development, environmental, social and good governance relate aspects for the promotion of responsible innovation
	5.12 Social action	5.12.1 Prepare a report annually in case of taking any social action

Plan in CSR		
7. Training and awareness	7.1 Promote good practices, support measures and improvement	7.1.1 Establish clear and honest information of your commercial offer
	7.2 Have channels for conflict resolution	7.2.1 Establish mechanisms to address complaints, denounce and resolve conflicts within the organization
8. Implementation of the EMS	8.1 Deployment in the field	8.1.1 Identify the aspects that affect the daily performance of workers, document these aspects
9. Audit,	9.1 Accessibility	9.1.1 Promote your products, services through identification
monitoring of results and	9.2 Monitoring and evaluation	9.2.1 The organization should annually undertake an internal audit of the Ethical and Socially Responsible Management System to ensure the correct application and evolution of the system
improvement actions	9.3 Present Report on environmental aspects	9.3.1 Make a report to have evidence of the environmental study
	9.4 Review by management and continous improvement	9.4.1 The highest representative of the organization must review the Ethical and Socially Responsible Management System at least annually to ensure its correctness and efficiency, through follow-up indicators and the elaboration of continuous improvement plans

### Tabla S1e. Description of ISO26000.

Phase	Activity	
1. Company or Organization	1.1 Establish Activities Schedule	
	1.2 Define the Purpose of the organization	
	1.3 Analyze and define the scope of the organization	
2. Recognition of environmental responsibility	2.1 Recognize the interested parties and their interests	
	On I should be a station of the convenient and a factor and describe	
	2.2 Identify the activities of the organization and interested parties     2.3 Identify applicable laws and regulations	
	2.4 Review the degree of compliance with respect to environmental laws	
	2.5 Disclose the relationship between the interests of the interested parties and the organization, as well as their degree of compliance with the laws	
3. Contamination prevention	<ul><li>3.1 To improve the prevention of pollution from its activities, an organization should:</li><li>identify the aspects and impacts of its decisions and activities on the surrounding environment</li></ul>	
	3.2 identify the sources of pollution and waste related to its activities	
	3.3 Systematically identify and avoid the use:  Of banned chemicals defined by national law or of unwanted chemicals listed in international conventions; and where possible, o chemicals identified by scientific bodies or any other stakeholder with reasonable and verifiable grounds as being of concern	
	3.4 Measure and record significant sources of contamination and their risks in the environment	
	3.5 Implement measures to progressively reduce and minimize direct and indirect pollution within its control or influence, in particula through development and promotion of fast uptake of more environmentally friendly products and services	
	3.6 Establish and implement accident prevention programs	
	3. Inform about significant sources of contamination, risks and measures taken	
4. Sustainable use of resources	4.1 In relation to all its activities an organization should:  – identify the sources of energy, water and other resources used	
	4.2 Measure, record and report on its significant uses of energy, water and other resources	
	4.3 Implement resource efficiency measures to reduce its use of energy, water and other resources, considering best practice indicator and other benchmarks	
	4.4 Complement or replace non-renewable resources where possible with alternative sustainable, renewable and low-impact sources;  – use recycled materials and reuse water as much as possible;	
	- manage water resources to ensure fair access for all users within a watershed;	
	<ul> <li>promote sustainable procurement;</li> <li>consider adopting extended producer responsibility; and</li> </ul>	
	- promote sustainable consumption	
	4.5 Establish evaluation schemes to promote sustainable procurement	
	4.6 Inform about the use of natural resources, impacts and measures adopted	
5. Mitigation of climate change and adaptation to it	5.1.1 To mitigate climate change impacts related to its activities an organization should:  - identify the sources of direct and indirect accumulated GHG emissions and define the boundaries (scope) of its responsibility	
5.1 Mitigat ion	5.1.2 Measure, record and report on its significant GHG emissions, preferably using methods well defined in internationally agreed standards	
1011	5.1.3 Implement optimized measures to progressively reduce and minimize the direct and indirect GHG emissions within its control and encourage similar actions within its sphere of influence	
	5.1.4 Review the quantity and type of significant fuels usage within the organization and implement programmes to improve efficiency and effectiveness. A life cycle approach should be undertaken to ensure net reduction in GHG emissions, even when low-emissions technologies and renewable energies are considered	
	5.1.5 Realize energy savings wherever possible in the organization, including purchasing of energy efficient goods and development o energy efficient products and services	

	5.1.6 Report GHG emissions in the organization and the measures adopted
5.2	5.2.1 To reduce vulnerability to climate change, an organization should:
Adapta	- consider future global and local climate projections to identify risks and integrate climate change adaptation into its decision making;
tion	- identify opportunities to avoid or minimize damage associated with climate change and where possible take advantage of
	opportunities, to adjust to changing conditions
	5.2.2 Implement measures to respond to existing or anticipated impacts and within its sphere of influence, contribute to building capacity
	of stakeholders to adapt.
6. Environmental	6.1 Identify potential adverse impacts on biodiversity and ecosystem services and take measures to eliminate or minimize these impacts
Protection	
	6.2 Establish and implement an integrated strategy for the administration of land, water and ecosystems that promotes conservation and sustainable use in a socially equitable way
	6.3 Incorporate the protection of natural habitat, wetlands, forest, wildlife corridors, protected areas and agricultural lands into the
	development of buildings and construction works
	6.4 Implement planning, design and operating practices as a way to minimize the possible environmental impacts resulting from its
	decisions on land use, including decisions related to agricultural and urban development
	6.5 Inform the results and the measures taken before the analysis of the possible affected ecosystems
7. Monitoring and control	7.1 Perform performance monitoring reports on environmental responsibility issues
	7.2 Obtain verification of the information obtained by the interested parties and expose the points that are not covered

## Tabla S2a. Description of Cobit5.

	PROCESS EDM01: " Ensure Governance Framework Setting and Maintenance "
Analyse and articulate the	requirements for the governance of enterprise IT, and put in place and maintain effective enabling structures, principles,
processes and practices, wit	h clarity of responsibilities and authority to achieve the enterprise's mission, goals and objectives
Governance Practice	Activity
Evaluate	ITG1 Analyse and identify the internal and external environmental factors (legal, regulatory and contractual obligations)
	and trends in the business environment that may influence governance design
	_ITG2 Determine the significance of IT and its role with respect to the business
	ITG3 Consider external regulations, laws and contractual obligations and determine how they should be applied within the governance of enterprise IT.
	TTG4 Align the ethical use and processing of information and its impact on society, natural environment, and internal and
	external stakeholder interests with the enterprise's direction, goals and objectives.
	ITG5 Determine the implications of the overall enterprise control environment with regard to IT
	ITG6 Articulate principles that will guide the design of governance and decision making of IT
	ITG7 Understand the enterprise's decision-making culture and determine the optimal decision-making model for IT
	ITG8 Determine the appropriate levels of authority delegation, including threshold rules, for IT decisions.
Direct	ITG9 Communicate governance of IT principles and agree with executive management on the way to establish informed and committed leadership
	ITG10 Establish or delegate the establishment of governance structures, processes and practices in line with agreed-on
	design principles
	ITG11 Allocate responsibility, authority and accountability in line with agreed-on governance design principles, decision-
	making models and delegation
	ITG12 Ensure that communication and reporting mechanisms provide those responsible for oversight and decision-
	making with appropriate information
	ITG13 Direct that staff follow relevant guidelines for ethical and professional behaviour and ensure that consequences of non-compliance are known and enforced
	ITG14 Direct the establishment of a reward system to promote desirable cultural change
Monitor	ITG15 Assess the effectiveness and performance of those stakeholders given delegated responsibility and authority for governance of enterprise IT
	TIG16 Periodically assess whether agreed-on governance of IT mechanisms (structures, principles, processes, etc.) are established and operating effectively
	ITG17 Assess the effectiveness of the governance design and identify actions to rectify any deviations found
	ITG18 Maintain oversight of the extent to which IT satisfies obligations (regulatory, legislation, common law, contractual), internal policies, standards and professional guidelines
	ITG19 Provide oversight of the effectiveness of, and compliance with, the enterprise's system of control
	ITG20 Monitor regular and routine mechanisms for ensuring that the use of IT complies with relevant obligations
	(regulatory, legislation, common law, contractual), standards and guidelines
	PROCESS EDM02 "Ensure Benefits Delivery"
Optimise the value contributi	on to the business from the business processes, IT services and IT assets resulting from investments made by IT at acceptable
	costs

Optimise the value contribution	to the business from the business processes, IT services and IT assets resulting from investments made by IT at acceptable				
costs					
Governance Practice	Activity				
Evaluate	ITG21. Understand stakeholder requirements; strategic IT issues, such as dependence on IT; and technology insights and				
	capabilities regarding the actual and potential significance of IT for the enterprise's strategy				
	ITG22 Understand the key elements of governance required for the reliable, secure and cost-effective delivery of optima				
	value from the use of existing and new IT services, assets and resources				
	ITG23 Understand and regularly discuss the opportunities that could arise from enterprise change enabled by current				
	new or emerging technologies, and optimise the value created from those opportunities				
	ITG24 Understand what constitutes value for the enterprise, and consider how well it is communicated, understood and				
	applied throughout the enterprise's processes				
	ITG25 Evaluate how effectively the enterprise and IT strategies have been integrated and aligned within the enterprise				
	and with enterprise goals for delivering value				
	ITG26 Understand and consider how effective current roles, responsibilities, accountabilities and decision-making bodies				
	are in ensuring value creation from IT-enabled investments, services and assets				
	ITG27 Consider how well the management of Π-enabled investments, services and assets aligns with enterprise value				
	management and financial management practices				
	ITG28 Evaluate the portfolio of investments, services and assets for alignment with the enterprise's strategic objectives,				
	enterprise worth, both financial and non-financial; risk, both delivery risk and benefits risk; business process alignment				
	effectiveness in terms of usability, availability and responsiveness; and efficiency in terms of cost, redundancy and				
	technical health				
Direct	ITG29 Define and communicate portfolio and investment types, categories, criteria and relative weightings to the criteria				
	to allow for overall relative value scores				
	ITG30 Define requirements for stage-gates and other reviews for significance of the investment to the enterprise and				
	associated risk, programme schedules, funding plans, and the delivery of key capabilities and benefits and ongoing				
	contribution to value				
	ITG31 Direct management to consider potential innovative uses of IT that enable the enterprise to respond to new				
	opportunities or challenges, undertake new business, increase competitiveness, or improve processes				
	ITG32 Direct any required changes in assignment of accountabilities and responsibilities for executing the investment				
	portfolio and delivering value from business processes and services				

	ITC22 Define and communicate out which had asked able as 1 1 1
	ITG33 Define and communicate enterprise-level value delivery goals and outcome measures to enable effective
	monitoring
	ITG34 Direct any required changes to the portfolio of investments and services to realign with current and expected enterprise objectives and/or constraints
	ITG35 Recommend consideration of potential innovations, organisational changes or operational improvements that
Moniton	could drive increased value for the enterprise from IT-enabled initiatives
Monitor	ITG36 Define a balanced set of performance objectives, metrics, targets and benchmarks. Metrics should cover activity and outcome measures, including lead and lag indicators for outcomes, as well as an appropriate balance of financial and non
	financial measures. Review and agree on them with the IT and other business functions, and other relevant stakeholders
	ITG37 Collect relevant, timely, complete, credible and accurate data to report on progress in delivering value agains
	targets. Obtain a succinct, high-level, all-around view of portfolio, programme and IT (technical and operational
	capabilities) performance that supports decision making, and ensure that expected results are being achieved
	ITG38 Obtain regular and relevant portfolio, programme and IT (technological and functional) performance reports Review the enterprise's progress towards identified goals and the extent to which planned objectives have been achieved
	deliverables obtained, performance targets met and risk mitigated
	ITG39 Upon review of reports, take appropriate management action as required to ensure that value is optimised
	ITG40 Upon review of reports, ensure that appropriate management corrective action is initiated and controlled
Ensure that the enterpri	PROCESS EDM03 "Ensure Risk Optimisation" se's risk appetite and tolerance are understood, articulated and communicated, and that risk to enterprise value related to the use
	of IT is identified and managed
Governance Practice	Activity
Evaluate	ITG41 Determine the level of IT-related risk that the enterprise is willing to take to meet its objectives (risk appetite)
	ITG42 Evaluate and approve proposed IT risk tolerance thresholds against the enterprise's acceptable risk and
	opportunity levels
	ITG43 Determine the extent of alignment of the IT risk strategy to enterprise risk strategy  ITG44 Proactively evaluate IT risk factors in advance of pending strategic enterprise decisions and ensure that risk-awar
	enterprise decisions are made
	ITG45 Determine that IT use is subject to appropriate risk assessment and evaluation, as described in relevan
	international and national standards.
	ITG46 Evaluate risk management activities to ensure alignment with the enterprise's capacity for IT-related loss and leadership's tolerance of it
Direct	leadership's tolerance of it  ITG47 Promote an IT risk-aware culture and empower the enterprise to proactively identify IT risk, opportunity and
	potential business impacts
	ITG48 Direct the integration of the IT risk strategy and operations with the enterprise strategic risk decisions and
	operations
	ITG49 Direct the development of risk communication plans (covering all levels of the enterprise) as well as risk action plans
	ITG50 Direct implementation of the appropriate mechanisms to respond quickly to changing risk and report immediatel
	to appropriate levels of management, supported by agreed-on principles of escalation (what to report, when, where an
	how)
	ITG51 Direct that risk, opportunities, issues and concerns may be identified and reported by anyone at any time. Ris. should be managed in accordance with published policies and procedures and escalated to the relevant decision makers
	ITG52 Identify key goals and metrics of risk governance and management processes to be monitored, and approve the
	approaches, methods, techniques and processes for capturing and reporting the measurement information
Monitor	ITG53 Monitor the extent to which the risk profile is managed within the risk appetite thresholds
	ITG54 Monitor key goals and metrics of risk governance and management processes against targets, analyse the cause of
	any deviations, and initiate remedial actions to address the underlying causes  ITG55 Enable key stakeholders' review of the enterprise's progress towards identified goals
	ITG55 Enable key stakeholders' review of the enterprise's progress towards identified goals.  ITG56 Report any risk management issues to the board or executive committee
	ITG55 Enable key stakeholders' review of the enterprise's progress towards identified goals.  ITG56 Report any risk management issues to the board or executive committee  PROCESS EDM04 "Ensure Resource Optimisation"
Ensure that adequate a	ITG55 Enable key stakeholders' review of the enterprise's progress towards identified goals.  ITG56 Report any risk management issues to the board or executive committee  PROCESS EDM04 "Ensure Resource Optimisation"  nd sufficient IT-related capabilities (people, process and technology) are available to support enterprise objectives effectively at
	ITG55 Enable key stakeholders' review of the enterprise's progress towards identified goals.  ITG56 Report any risk management issues to the board or executive committee  PROCESS EDM04 "Ensure Resource Optimisation"
Governance Practice	ITG55 Enable key stakeholders' review of the enterprise's progress towards identified goals.  ITG56 Report any risk management issues to the board or executive committee  PROCESS EDM04 "Ensure Resource Optimisation"  Ind sufficient IT-related capabilities (people, process and technology) are available to support enterprise objectives effectively at optimal cost.  Activity
Governance Practice	ITG55 Enable key stakeholders' review of the enterprise's progress towards identified goals.  ITG56 Report any risk management issues to the board or executive committee  PROCESS EDM04 "Ensure Resource Optimisation"  Ind sufficient IT-related capabilities (people, process and technology) are available to support enterprise objectives effectively at optimal cost.  Activity
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reporting
ITG78 Periodically assess the effectiveness of the mechanisms for, and outcomes from, communication with external and
internal stakeholders
ITG79 Determine whether the requirements of different stakeholders are met

# Tabla S2b. Description of ISO38500.

Principle	Task	Activity  TC-1 Commission by the state of th
Responsability	Direct	ITG1 Governing bodies should direct that strategies be followed according to the assigned IT responsibilities
		ITG2 Governing bodies should direct that they receive the information that they need to meet their
	Monitor	responsibilities and accountability  ITG3 Governing bodies should monitor that appropriate mechanisms for governance of IT are established
	William	ITG4 Governing bodies should monitor that those given responsibility acknowledge and understand their
		responsibilities
		ITG5 Governing bodies should monitor the performance of those given responsibility in the governance of IT
	Evaluate	ITG6 Governing bodies should evaluate the options for assigning responsibilities in respect of the organization's currer
		and future use of IT
		ITG7 Governing bodies should evaluate the competence of those given responsibility to make decisions
		regarding IT
Strategy	Direct	ITG8 Governing bodies should direct the preparation and use of strategies and policies that ensure the
		organization does benefit from developments in IT
		ITG9 Governing bodies should also encourage the submission of proposals for innovative uses of IT that enable the organization to respond to new opportunities or challenges, undertake new businesses or
		improve processes
	Monitor	ITG10 Governing bodies should monitor the progress of approved IT proposals
		ITG11 Ensure that they are achieving objectives in required timeframes
		ITG12 Using allocated resources
		ITG13 Governing bodies should monitor the use of IT to ensure that it is achieving its intended benefits
	Evaluate	ITG14 Governing bodies should evaluate developments in IT and business processes to ensure that IT will provide
		support for future business needs
		ITG15 When considering plans and policies, the governing body should evaluate the use of IT and IT activities to ensu
		they align with the organization's objectives and satisfy key legitimate stakeholder requirements
		ITG16 The governing body should also take into consideration good practices
		ITG17 Evaluate the satisfaction of the interested parties
Acquicition	Direct	ITG18 Governing bodies should ensure that the use of IT is subject to appropriate risk management
Acquisition	Direct	ITG19 Activos TI se adquiridos apropiadamente Governing bodies should direct that IT assets (systems au infrastructure) be acquired in an appropriate manner
		ITG20. Including the preparation of suitable documentation, while ensuring that required capabilities
		are provided
		ITG21 Governing bodies should direct that supply arrangements (including both internal and external supply
		arrangements) support the business needs of the organization
		ITG22 Governing bodies should direct that their organization and suppliers develop a shared understanding of t
		organization's intent in making any IT acquisition
	Monitor	ITG23 Governing bodies should monitor IT investments to ensure that they provide the required capabilities
		ITG24 Governing bodies should monitor the extent to which their organization and suppliers maintain the
		shared understanding of the organization's intent in making any IT acquisition
		ITG25 Evaluate IT alternatives
	Evaluate	ITG26 Evaluate the needs of approved proposals
		ITG27 Risk / value analysis
D (	Dimet	ITG28 Evaluate the profitability of the proposed Investments
Performance	Direct	ITG29 Governing bodies should ensure allocation of sufficient resources so that IT meets the needs of the organization
		ITG30. Identify the agreed priorities and budgetary constraints
		ITG31 Governing bodies should direct those responsible to ensure that IT supports the organization
		ITG32 IT supports the organization, when required for business reasons, with correct and up-to-date data that
		protected from loss or misuse
	Monitor	ITG33 Governing bodies should monitor the extent to which IT supports the business
		ITG34 Governing bodies should monitor the extent to which allocated resources and budgets are prioritised according
		to business objectives
		ITG35 Governing bodies should monitor the extent to which the policies, such as for data accuracy are follow
		properly
		ITG36 Governing bodies should monitor the extent to which the policies, such as the efficient use of IT, are follow
	Evaluate	properly  ITC27 Coverning hodies should evaluate the plans proposed by the managers to ensure that IT will support busing
	Evaluate	ITG37 Governing bodies should evaluate the plans proposed by the managers to ensure that IT will support busine processes with the required capability and capacity
		ITG38 The organization and the treatment of risk associated with the use of IT
		ITG39 Governing bodies should evaluate the risks to the integrity of information and the protection of IT
		assets, including associated intellectual property and organizational memory
		ITG40 Governing bodies should evaluate options for assuring effective, timely decisions about use of IT in
		support of business goals
		ITG41 Governing bodies should regularly evaluate the effectiveness and performance of the organization's governan
		of IT
Conformance	Direct	ITG42 Governing bodies should direct those responsible to establish regular and routine mechanisms for ensuring th
		the use of IT complies with relevant obligations, internal policies, standards and guidelines
		ITG43 Governing bodies should direct that policies are established and enforced to enable the organization to
		meet its internal obligations in its use of IT
		ITG44 Governing bodies should direct that IT staff follow relevant guidelines for professional behaviour
		and development  ITG45 Governing bodies should direct that all actions relating to IT be ethical
	Monitor	ITG46 Governing bodies should unrect that an actions relating to 11 be ethical  ITG46 Governing bodies should monitor IT compliance and conformance through appropriate reporting and
	1110111101	audit practices
		ITG47 Ensuring that reviews are timely, comprehensive, and suitable for the evaluation of the extent of satisfaction
		the organization
		ITG48 Governing bodies should monitor IT activities, including disposal of assets and data, to ensure the
		environmental, privacy, strategic knowledge management, preservation of organizational memory and other releva
		obligations are met
	Evaluate	ITG49 Governing bodies should regularly evaluate the extent to which IT satisfies obligations (regulatory, legislatic
		contractual), internal policies, standards and professional guidelines
		ITG50 Governing bodies should regularly evaluate the organization's internal conformance to its framework f
		governance of IT

Behaviour		ITG52 Governing bodies should direct that risks, opportunities, issues and concerns may be identified and
		reported by anyone at any time
ITG54 Procedures and escalated to the relevant decision n		ITG53 These risks should be managed in accordance with published policies
		ITG54 Procedures and escalated to the relevant decision makers
		ITG55 Governing bodies should monitor IT activities to ensure that identified human behaviours remain
		relevant and that proper attention is given to them
		ITG56 Governing bodies should monitor work practices to ensure that they are consistent with the appropriate use of IT.
		ITG57 Governing bodies should evaluate IT activities to ensure human behaviours
	Evaluate	ITG58 Governing bodies should evaluate IT activities identifying appropriate behavior

# Tabla S2c. Description of framework Peter Weill and Jeanne W. Ross.

Component	Activity	
1. The strategy of the company and the	1.1 Build excellence in each of the business lines	
organization	1.2 Provide integrated solutions for customers	
	1.3 Improve the eficiency	
	1.4 Benefit from the economies of scale	
	1.5 Develop the culture 'a company-a team'	
	1.6 Increase transparency and accountability	
2. The IT organization and the desirable	2.1 Develop the only business unit implemented (appl)	
behavior	2.2 Create a shared infrastructure	
	2.3 Simplify the firmware architecture to facilitate sharing, integration and reuse	
	2.4 Apply project management techniques and standards including Six Sigma	
3. IT governance or decision making	3.1 Define IT Principles	
agreements	3.2 Define IT Architecture	
	3.3 Define IT infrastructure strategies	
	3.4 Define Needs of business applications	
	3.5 Define IT investments	
4. IT Governance Mechanisms	4.1 Decision Making Structure (Business Monarchy   Federalism, IT Monarchy, Duopoly)	
	4.2 Alignment Processes (IT Investment Approval Processes, Architectural Exception Process, Service Level Agreements, Chergeback, Project Tracking, Formal Business Value Tracking)	
	4.3 Communication Approaches. This encompasses the announcements, advocates, channels, and education efforts that disseminate the policies, governance principles, and outcomes of the decision-making processes	
5. The business performance objectives	5.1 Different parameters for each business unit	
	5.2 New language and culture	
6. IT Parameters and Accountability	6.1 Budget process of 'Shrink to increase'	
	6.2 Different parameters for each business unit	
	6.3 ROI (return on investments)	
	6.4 Reduction in the number of IT products used and elimination of non-approved products	
	6.5 Certification in project methodology	