Theme	Sub-theme	SUGAR indicators	Fairtrade SPO requirement	
The indicators in thi	The indicators in this section are directly linked to requirements of the Fairtrade Standard for Small Producer Organizations			
IMPROVED FARMIN	IG PERFORMAN	CE		
	Irrigation / water	Increased sucrose produced per 100mm of irrigation Rounds of irrigation how much irrigation was applied in mm plus the area irrigated *not applicable for countries with rain fed sugar cane production	3.2.26 You must provide training to the members of your organization on measures to use water efficiently. This training must include:	
Optimal use of inputs	Fertiliser	Amount /ha for all fertilisers Fertilisers applied according to soil analysis and crop nutrition plan Regular soil testing Follow guidelines on fertilizer inputs	3.2.22 You must provide training to the members of your organization on the appropriate use of fertilizers. This training must include:  · measures to ensure that fertilizers (organic and inorganic) are applied in amounts that respond to the nutrient need of the crop.	
	Pesticides	Amount /ha for all pesticides Personal protective equipment available for the use of pesticides Use of resistant sugarcane varieties	<ul> <li>3.2.2 You must provide training to your members on the subject of integrated pest management. Training must include: <ul> <li>the monitoring of pests and diseases</li> <li>alternative ways to control pests and diseases</li> <li>preventive measures against pests and diseases</li> <li>measures to avoid that pests and diseases build up resistance to pesticides</li> </ul> </li> <li>3.2.5 You must implement measures to ensure that all people, including members and workers, wear appropriate personal protective equipment (PPE) when handling pesticides or hazardous chemicals.</li> </ul>	

	Herbicides	Reduced infestation of plantations Amount of various herbicides used per ha Controlled herbicide use based on soil texture, sugar cane variety No weeds in plantations (optimum application of herbicide) Use of herbicide e.g. Paraquat abandoned by a majority of suppliers / whole industry or by complete supply and industry within one country or a specific trade chain	3.2.19 You must work toward all members who use herbicides minimizing the amount they use by implementing other weed prevention and control strategies.
Labour conditions	Occupational Health and Safety	Health and safety equipment provided  Access to clean drinking water in the field  Access to toilets	3.3.31 You and the members of your organization must provide clean drinking water and clean toilets with hand washing facilities close by for workers, and clean showers for workers who handle pesticides. These facilities must be separate for women and men and the number of facilities must be in proportion to the number of workers.
Optimal management of outputs	Waste	Farm is free from hazardous waste Storage available for hazardous waste	3.2.29 You must ensure that your members keep their farms free of hazardous waste.  3.2.30 You and the members of your organization must have designated areas for the storage and disposal of hazardous waste. In the absence of appropriate disposal facilities, small amounts of hazardous farm waste can be burned in a well-ventilated area away from people, animals or crops. You and the members of your organization may only burn hazardous waste if it is allowed by local regulation and all safety recommendations are followed.
		Green cane harvest, effluent run-off mana environmentally friendly bio-treatment, in	ngement, cane trash management, no use of banned chemicals, a place of insecticides

Elimination of harmful production practices	Soil erosion & pollution	Improved measures against soil erosion and pollution in place	<ul> <li>3.2.20 You must identify land at risk of soil erosion and land that is already eroded in fields where your members plant Fairtrade crops.</li> <li>3.2.21 You must provide training on practices that reduce and/or prevent soil erosion to those members of your organization where risk of soil erosion or already eroded land has been identified.</li> <li>3.2.2 You must provide training to your members on the subject of</li> </ul>
		Quantities of synthetic fertilizer applied versus organic fertilizer Herbicides and pesticides applied per hectare / year Fertilizer applied according to soil testing	<ul> <li>integrated pest management. Training must include:         <ul> <li>the monitoring of pests and diseases</li> <li>alternative ways to control pests and diseases</li> <li>preventive measures against pests and diseases</li> <li>measures to avoid that pests and diseases build up resistance to pesticides</li> </ul> </li> <li>3.2.22 You must provide training to the members of your organization on the appropriate use of fertilizers. This training must include:         <ul> <li>measures to ensure that fertilizers (organic and inorganic) are applied in amounts that respond to the nutrient need of the crop.</li> </ul> </li> </ul>
		Soil testing	3.2.27 You must handle waste water from central processing facilities in a manner that does not have a negative impact on water quality, soil fertility or food safety.  3.2.12 Your members must have equipment to handle accidents and spills in the areas where they prepare or mix pesticides and other hazardous chemicals, so these do not seep into soil or water. Members must plan spraying in such a way as to have no or very little spray solution left.
			4.1.9 You must have an activity in your Fairtrade Development Plan to maintain or improve sustainable production practises within your ecosystem.

	Water pollution		<ul> <li>3.2.27 You must handle waste water from central processing facilities in a manner that does not have a negative impact on water quality, soil fertility or food safety.</li> <li>3.2.12 Your members must have equipment to handle accidents and spills in the areas where they prepare or mix pesticides and other hazardous chemicals, so these do not seep into soil or water. Members must plan spraying in such a way as to have no or very little spray solution left.</li> <li>3.2.35 You and the members of your organization must maintain buffer zones around bodies of water and watershed recharge areas and between production areas and areas of high conservation value, either protected or not. Pesticides, other hazardous chemicals and fertilizers must not be applied in buffer zones.</li> </ul>
			4.1.9 You must have an activity in your Fairtrade Development Plan to maintain or improve sustainable production practises within your ecosystem.
	Air pollution		4.1.9 You must have an activity in your Fairtrade Development Plan to maintain or improve sustainable production practises within your ecosystem.
Sustainable management of natural resources	Soil		3.2.23 You must <b>report</b> on measures that you as an organization and your members have implemented to improve soil fertility.
	Water	Improved drainage and improved access to fields GAP replaces irrigation	3.2.24 You must list sources of water used for irrigating and processing Fairtrade crops.  3.2.25 You must keep informed about the situation of the water sources in your area. In case local environmental authorities or other entities consider that your water sources are being depleted, or are in a critical situation, or under excessive pressure, you must engage in a dialogue with the authorities or local existing initiatives in order to identify possible ways to be involved in research or solution finding.

	Biodiversity	Declared protected areas  No of dialogues with regional / local organizations	3.2.34 You must <b>report</b> on activities that you or your members carry out to protect and enhance biodiversity.	
Development of env	vironmental serv	vices		
	Biodiversity corridors and refuges	Buffer zones	3.2.35 You and the members of your organization must maintain buffer zones around bodies of water and watershed recharge areas and between production areas and areas of high conservation value, either protected or not. Pesticides, other hazardous chemicals and fertilizers must not be applied in buffer zones.	
Energy and GHG emissions	Mitigation practices	Practices to reduce GHG emissions and increase carbon sequestration	3.2.40 You must <b>report</b> on practices that you or the members of your organization carry out to reduce GHG emissions and increase carbon sequestration.	
	The indicators in the following section are not directly linked to SPO requirements			
Theme	Sub-theme	SUGAR indicators		
		Field yield: total volume of cane produced by members / the total number of hectares planted with cane by members Monitor tonnes cane/tonnes sugar (tc/ts) Sugar yield: the tons of sucrose obtained from the cane of all members		
Productivity			from the cane of all members	
Productivity  Quality			rom the cane of all members	
,		Sugar yield: the tons of sucrose obtained for Maturity samples Kill/Mill Intervals (hrs) Extraneous matter content New hectares planted in sugarcane per yeahandoned hectares replanted or reconding to maintain it, higher income and joint we replanting cane	ar tioned some fields are abandoned and grow wild as the income isn't enough work planning allows to reclaim abandoned fields clearing vegetation and cane has died the field is replenished with new planting stock	
Quality  Crop maintenance		Sugar yield: the tons of sucrose obtained for Maturity samples Kill/Mill Intervals (hrs) Extraneous matter content New hectares planted in sugarcane per yean Abandoned hectares replanted or recondition to maintain it, higher income and joint with replanting cane Hectares of cane field "resupplied" where	ar tioned some fields are abandoned and grow wild as the income isn't enough work planning allows to reclaim abandoned fields clearing vegetation and cane has died the field is replenished with new planting stock	
Quality  Crop maintenance and expansion	Floods	Sugar yield: the tons of sucrose obtained for Maturity samples Kill/Mill Intervals (hrs) Extraneous matter content New hectares planted in sugarcane per yean Abandoned hectares replanted or reconding to maintain it, higher income and joint we replanting cane Hectares of cane field "resupplied" where Production of seed cane (or financial access Dams / drainage in place	ar tioned some fields are abandoned and grow wild as the income isn't enough work planning allows to reclaim abandoned fields clearing vegetation and cane has died the field is replenished with new planting stock	

		*for countries with heavy rainfall
	Droughts Temperature	Use of resistant seedlings
	extremes	